

Fisa de Verificare Standarde Minimale Necesare si Obligatorii (Comisia Fizica)

Conform Monitorul Oficial al României, Ordin 4204 - 15.07.2013

Conf. Dr. Valentin Barna

Iunie 2017



Rezumat Valori Factori:

	Minim Necesar pt. <u>Profesor</u> <u>Universitar</u>	Efectuat de catre candidat
Activitate Didactica si Profesionala (A1)	2	3.4
II. Activitatea de Cercetare (A2). Factor I	4	9.85
II. Activitatea de Cercetare (A2). Factor P	3	9.4
III. Recunoastere si impactul activitatii (A3) Factor C	35	73.47

Formula de calcul a indicatorului de merit:

$$A = A1 (\text{minim } 2p) + A2 (\text{minim } 4p) + A3 (\text{minim } 2p) = 3.4 + 11.19 + 4.19 = 18.78p \text{ TOTAL}$$

I. Activitate Didactica si Profesionala (A1). *Total : 3.4 puncte (minim necesar: 2 puncte)*

1.1. Carti si Capitole in Carti de Specialitate

1.1.1. Carti / Capitole ca Autor	1.1.1.1 Internationale	Indicatori: 0,4 Indicatori: 0,4	1. "Liquid Crystal Microlasers" Chapter 3 – "Random Lasing in Liquid Crystals"; Strangi G., Barna V., De Luca A., Ferjani S., Versace C., Ed. Transworld Research Network, ISBN 978-81-7895-469-1, 04/ (2010). 2." Syntheses and Applications of Carbon Nanotubes and Their Composites" Chapter - "Mixtures Composed of Liquid Crystals and Nanoparticles" V Popa-Nita, V. Barna, R. Repnik, S. Kralj, Ed. INTEC (Ed. S. Suzuki), ISBN 978-953-51-1125-2, (2012).
	1.1.1.2 nationale	Indicatori: 0,2	1. "Fizico-Chimia Polimerilor. Aplicatii." Constantinescu L., Berlic C., Barna V. Editura Universitatii din Bucuresti, 196p, (2006)
		Subtotal: 1	

1.2 Material didactic / Lucrari didactice

1.2.2. Indrumatoare de laborator/ material didactic (Prof. - minim 2 buc)	Indicatori: 0,2 Indicatori: 0,2	1. "Breviar de Fizica Polimerilor", Constantinescu L., Barna E.S., Fianu S., Barna V. Editura Universitatii din Pitesti, 234 pag, (2005), Romania. 2." Mecanica Fizica si Acustica (I) – Lucrari Practice" Ciucu C, Barna V, Miron C., Editura Universitatii din Bucuresti, 110p, (2009)
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	Indicatori: 0,2	3." Mecanica Fizica si Acustica (II) – Lucrari Practice" Barna E.S., Ciucu C, Barna V, Miron C., Berlic C., Editura Universitatii din Bucuresti, 95p, (2010)
	Subtotal: 0.6	

1.3 Brevete de Inventie

1.3.1. Internationale	Indicatori: 0.6	1. "Transient interface charged layer effect (TICLE) on the relaxation of electro-optic switching in nematic liquid crystals to build electro-optical devices" A.Th. Ionescu, A.L. Alexe-Ionescu, N. Scaramuzza, E.S. Barna, V. Barna International Patent DF 03 A 0002376 , 28.05.2003.
	Subtotal: 0.6	

1.4 Coordonare de programe de studii, organizare si coordonare programe de formare continua si proiecte educationale. Granturi/proiecte de cercetare in valoare de peste 100.000 euro, castigate prin competitie. (in calitate de Director / Responsabil Proiect / 0.4p per proiect)

Indicatori: 0.4	1. Proiect Tinere Echipe Cercetare nr. 96/2010 "Sisteme Inovative pentru Aplicatii in Optica si Stiinta Materialelor" (Buget: 750000 RON)
Indicatori: 0.4	2. Proiect IDEI Cercetare Exploratorie nr 83/2011, "Noi Clase de Metamateriale cu Aplicatii in Optica si Fotonica" (Buget: 1500000 RON)
Indicatori: 0.4	3. Proiect UEFISCDI TE 117 / 2015 - "O noua generatie de sisteme LASER de inalta eficienta: de la micro surse de lumina la dispozitive optice mature." (Buget 549625 RON)
Subtotal: 1.2	

II. Activitatea de Cercetare (A2).

2.1 Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings.

TOTAL : 9.85 puncte (minim necesar: 4 puncte)

Articol	Nr. Autori (eventiv)	Scorul de Influenta Absolut (in anul publicarii articolului)	Punctaj
"Fast electro-optic switching in nematic liquid crystals" A.L.Ionescu, A.Ionescu, E.S.Barna, V. Barna , N. Scaramuzza, Applied Physics Letters Vol 84(1) pp. 40-42. January 5, (2004)	5	2.1	0.42
"Molecular simulation of the free surface order in NLC samples" N. Scaramuzza, C.Berlic, E.S.Barna, G.Strangi, V. Barna , A.Ionescu, Journal of Physical Chemistry B, 108(10), 3207-3210, (2004)	5.333 3	1.7	0.318
"Role of delocalized electrons in polyaniline - nematogen cyanobiphenyls interaction" A.L.Ionescu, A.Ionescu, E.S.Barna, V.Barna , N. Scaramuzza, Journal of Physical Chemistry B, 108(26), 8894-8899, (2004)	5	1.7	0.34
"Color Tunable Distributed Feedback Organic Micro-Cavity Laser" G. Strangi, V. Barna , R. Caputo, A. de Luca, C. Versace, N. Scaramuzza, C. Umeton, R..Bartolino, G.Price Physical Review Letters 94, 063903, (2005)	6.333 3	3.5	0.552
. "Band-Edge and Defect Modes Lasing Due to Confinement of Helixed Liquid Crystals in Cylindrical Microcavities" Barna V. , , Ferjani S. , , De Luca A. , Caputo R., Versace C. ,Scaramuzza N., Strangi G. Applied Physics Letters 87, 221108 (2005)	5.666 6	2.0	0.353
."Distributed Feedback Micro-Laser Array: Helixed Liquid Crystals Embedded in Holographically Sculptured Polymeric Microcavities" Barna V. , Caputo R. , De Luca A., Scaramuzza N. , Strangi G. ,Versace C. , Umeton C. , Bartolino R. , Price G. N. Optics Express, Vol.14, 7, pp 2695-2705, (2006)	6.333 3	1.6	0.252

"Random Lasing and Weak Localization of Light in Dye-Doped Nematic Liquid Crystals" Strangi G., Ferjani S., Barna V. , De Luca A., Versace, C., Scaramuzza N., Bartolino R. Optics Express, 14, 17, 7737-7744 (2006)	5.666 6	1.6	0.282
"Thermal Behaviour of Random Lasing in Dye Doped Nematic Liquid Crystals" Ferjani S., Barna V. , De Luca A., Versace C., Scaramuzza N., Bartolino R., Strangi G. Applied Physics Letters 89, 121109 (2006)	5.666 6	1.8	0.318
"Random Lasing in Freely Suspended Dye Doped Nematic Liquid Crystals" Ferjani S., Barna V. , De Luca A., Versace C., Strangi G. Optics Letters, Vol. 33 Issue 6, pp.557-559 (2008)	5	1.26	0.252
"Statistical Analysis of Random Lasing Emission Properties in Nematic Liquid Crystals" Ferjani S., Sorriso L-V., De Luca A., Barna V. , , De Marco R., Strangi G. Physical Review E 78, 011707 (2008)	5.333 3	1.04	0.19
"Nanoscale alignment and optical nanoimaging of a birefringent liquid" Barna V. , De Luca A., Rosenblatt C. Nanotechnology 19 , 32, 325709 (2008)	3	1.233	0.411
"Optical nanotomography of anisotropic fluids" De Luca A., Barna V. , Atherton T., Carbone G., Sousa M., Rosenblatt C. Nature Physics, 4, 869 (2008)	5.333 3	12.715	2.385
"Photopolarimetric Investigations of the Anchoring Energy Strength for a Nematic Liquid Crystal on Polyaniline Boundary Surfaces" Barna V. , Strangi G., Barna E.S. Journal of Optoelectronics and Advanced Materials, 10, 12, 3403 (2008)	3	0.11	0.036
"Thermo-Recurrent Nematic Random Laser" Ferjani S., De Luca A., Barna V. , Versace C., Strangi G. Optics Express, Vol. 17, No. 3, 2042, (2009)	5	1.235	0.247
"Direct measurement of surface-induced orientational order parameter profile above the nematic - isotropic phase transition temperature" Lee J-H., Atherton T., Barna V. , De Luca A., Bruno E., Petschek R.G., Rosenblatt C. Physical Review Letters 102, 167801 (2009)	5.666 6	3.3	0.58
"Coherent backscattering and dynamical light localization in liquid crystals driven throughout chaotic regimes" Carbone F., De Luca A., Barna V. , Ferjani S., Vena C., Versace C., Strangi G. Optics Express 17, 16, 13435 (2009)	5.666 6	1.235	0.217
"The influence of drying temperature on the closed-packed structure of silanized monolayers deposited on indium tin oxide (ITO) substrates" D'Elia S., Barna V. , Scaramuzza N., Strangi G., Bartolino R. Journal of Materials Research, 24, 9, 2784 (2009)	5	0.8	0.16

<p>“Laser action in dye doped liquid crystals: from periodic structures to random media” A. De Luca, V. Barna, S. Ferjani, R. Caputo, C. Versace, N. Scaramuzza, R. Bartolino, C. Umeton and G. Strangi Journal of Nonlinear Optical Physics & Materials, Vol. 18, No. 3, 349 (2009)</p>	6.333 3	0.14	0.022
<p>"Nematic Director Distribution of a Liquid Crystalline System Presenting a Cylindrical Defect" C. Berlic, V. Barna, Journal of Optoelectronics and Advanced Materials, 12, 1427 - 1432 (2010).</p>	2	0.11	0.055
<p>“Model for trap-assisted electron tunneling in thin insulators” V. Filip, J. Liu, C. K. Wong, H. Wong, D. Nicolaescu, V. Barna, and E. S. Barna Journal of Vacuum Science & Technology B, 28, 2 (2010).</p>	5.666 6	0.456	0.08
<p>“Monte Carlo simulation of the molecular distribution and optical properties of a nematic liquid crystal system with periodic surface gratings” Berlic and V. Barna, Optics Express, 18, 23, 23646 (2010).</p>	2	1.255	0.627
<p>“Efficient random laser effect in a new dye-nematic liquid crystalline composite” V. Barna, V. I. Vlad, A. Petris, I. Dancus, T. Bazaru, E. S. Barna, A. De Luca, S. Ferjani, G. Strangi, Rom. Rep. Phys., 62, 3, 444 (2010).</p>	6.333 3	0.2	0.03
<p>“Amplification of light and random laser action in partially ordered dye-doped nematics” V. Barna, G Strangi, A. de Luca, and S. Ferjani, Optoelectronics and Advanced Materials – Rapid Communications, 5,11,1154 (2011)</p>	4	0.05	0.0125
<p>“Molecular simulation of a nematic liquid crystal cell with asymmetric recurrent boundary conditions” C. Berlic and V. Barna, Molecular Crystals and Liquid Crystals,549,140 (2011)</p>	2	0.14	0.07
<p>“Synchrotron infrared microspectroscopy of nematic liquid crystals in polymeric micro cavities” V. Barna and E.S. Barna, Optoelectronics and Advanced Materials – Rapid Communications, 5, 10, 1046 (2011)</p>	2	0.05	0.025
<p>“Representative longitudinal optical phonon modes in polar semiconductor quantum dots” Cheche, T.O., Barna, V., Stamatin, I. Chemical Physics, 400, 207 (2012)</p>	3	0.677	0.225
<p>"Monte carlo simulation study for a negative dielectric anisotropy nematic liquid crystal presenting a defect nanoparticle under applied electric field conditions" Berlic, C; Moisescu, M; Manolescu, B; Barna, V Digest Journal Of Nanomaterials And Biostructures Volume: 7 Issue: 4 Pages: 1701-1707 2012</p>	4	0.23	0.057

"Fabrication and characterization of thin polyaniline films obtained by glancing angle deposition (GLAD) technique" Ion, FM; Barna, V ; Vulpe, S; Radu, A; Filimon, A ; Gentiana, H Digest Journal Of Nanomaterials And Biostructures Volume: 7 Issue: 4 Pages: 1481-1490 2012	5.33	0.23	0.043
"The effect of the electric field on the nematic liquid crystal molecular redistribution in the vicinity of an immersed spherocylindrical nanoparticle" Berlic, C; Moisescu, M; Barna, V Digest Journal Of Nanomaterials And Biostructures Volume: 7 Issue: 4 Pages: 1401-1412 2012	3	0.23	0.0766
"Periodic and aperiodic liquid crystal-polymer composite structures realized via spatial light modulator direct holography" Infusino, M; De Luca, A; Barna, V ; Caputo, R; Umeton, C OPTICS EXPRESS Volume: 20 Issue: 21 Pages: 23138-23143 2012	5	1.132	0.226
"Theoretical approach for type-i semiconductor spherical core-shell quantum dots heterostructure with wide band gaps" T. O. Cheche, V. Barna , I. Stamatini; Journal Of Optoelectronics And Advanced Materials Vol. 15, No. 7-8 p. 615 - 620 (2013)	3	0.11	0.036
"Analytical approach for type-II semiconductor spherical core-shell quantum dots heterostructures with wide band gaps" Tiberius O. Cheche , Valentin Barna , Yia-Chung Chang, Superlattices and Microstructures, 60, 475–486 (2013)	3	0.385	0.128
"Monte carlo type investigations on the nucleation processes in soft matter systems" Berlic, C., Barna, V. , Manolescu, B., Dena, D.; Digest Journal of Nanomaterials and Biostructures 8 (4), pp. 1845-1852, (2013)	4	0.202	0.05
"Para-phenylene derivatives obtained by plasma polymerization technique" Nastase, C., Dumitru, A., Barna, V. , Nastase, F.; Digest Journal of Nanomaterials and Biostructures 8 (4), pp. 1811-1818 (2013)	4	0.202	0.05
"Investigations on the nucleation processes in frustrated polymeric systems" Berlic, C., Barna, V. , Manolescu, B., Mahler, B., Staicu, D.; Digest Journal of Nanomaterials and Biostructures 9 (3), pp. 919-928 (2014)	5	0.202	0.04
"Study of the instantaneous nucleation phenomena in soft matter systems by means of Monte Carlo simulation" Berlic, C., Barna, V. , Manolescu, B., Dena, D. ; Digest Journal of Nanomaterials and Biostructures 9 (1), pp. 197-204 (2014)	4	0.202	0.05
"Investigation Of Polymer Nucleation Process In N-Dimensional Space", C. Berlic, V. Barna , B. Manolescu; Digest Journal of Nanomaterials and Biostructures 10, 4, 1365 (2015)	3	0.139	0.046

"Mirrorless dye doped ionic liquid lasers", V. Barna , L. De Cola, Optics Express 23, 9, 11936 (2015).	2	0.967	0.483
"Sporadic Polymer Crystallization In The N-Dimensional Space", C. Berlic, V. Barna , Digest Journal of Nanomaterials and Biostructures 11, 1, 159 (2016).	2	0.15	0.075
"Ftir Investigation Of The Ageing Process Of Carbon Nanowalls", V. MĂRĂSCU, S. VIZIREANU, S. D. STOICA, V. BARN A, A. LAZEA-STOYANOVA, G. DINESCU, Rom. Rep. Phys., 68,3, (2016)	5.333	0.242	0.045
		TOTAL I (punctaj minim 4 puncte)	<u>9.85</u> <u>Puncte</u>

2.2 Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings pentru care candidatul este primautor sau autor corespondent.

TOTAL: 9.4 (Punctaj minim necesar 3 puncte)

Articol	Scor de Influenta Absolut
. "Band-Edge and Defect Modes Lasing Due to Confinement of Helixed Liquid Crystals in Cylindrical Microcavities" Barna V. , Ferjani S. , , De Luca A. , Caputo R., Versace C. ,Scaramuzza N., Strangi G. Applied Physics Letters 87, 221108 (2005)	2.1
. "Distributed Feedback Micro-Laser Array: Helixed Liquid Crystals Embedded in Holographically Sculptured Polymeric Microcavities" Barna V. , Caputo R. , De Luca A., Scaramuzza N. , Strangi G. ,Versace C. , Umeton C. , Bartolino R. , Price G. N. Optics Express, Vol.14, 7, pp 2695-2705, (2006)	1.6
"Nanoscale alignment and optical nanoimaging of a birefringent liquid" Barna V. , De Luca A., Rosenblatt C. Nanotechnology 19 , 32, 325709 (2008)	1.233
"Photopolarimetric Investigations of the Anchoring Energy Strength for a Nematic Liquid Crystal on Polyaniline Boundary Surfaces" Barna V. , Strangi G., Barna E.S. Journal of Optoelectronics and Advanced Materials, 10, 12, 3403 (2008)	0.11
"Nematic Director Distribution of a Liquid Crystalline System Presenting a Cylindrical Defect" C. Berlic, V. Barna , Journal of Optoelectronics and Advanced Materials, 12 , 1427 - 1432 (2010).	0.11
"Monte Carlo simulation of the molecular distribution and optical properties of a nematic liquid crystal system with periodic surface gratings" Berlic and V. Barna , Optics Express, 18, 23, 23646 (2010).	1.255
"Efficient random laser effect in a new dye-nematic liquid crystalline composite" V. Barna , V. I. Vlad, A. Petris, I. Dancus, T. Bazaru, E. S. Barna, A. De Luca, S. Ferjani, G. Strangi, Rom. Rep. Phys., 62, 3, 444 (2010).	0.2
"Amplification of light and random laser action in partially ordered dye-doped nematics" V. Barna , A. de Luca, S. Ferjani and G Strangi Optoelectronics and Advanced Materials – Rapid Communications, 5,11, 1154 (2011).	0.05
"Synchrotron infrared microspectroscopy of nematic liquid crystals in polymeric micro cavities" Barna V. , Barna E.S. , Optoelectronics and Advanced Materials – Rapid Communications, 5, 10, 1046 (2011).	0.05
"Molecular simulation of a nematic liquid crystal cell with asymmetric recurrent boundary conditions" C. Berlic and V. Barna , Molecular Crystals and Liquid Crystals,549,140 (2011)	0.14
"Monte carlo simulation study for a negative dielectric anisotropy nematic liquid crystal presenting a defect nanoparticle under applied electric field conditions" Berlic, C;	0.23

Moisescu, M; Manolescu, B; Barna, V Digest Journal Of Nanomaterials And Biostructures Volume: 7 Issue: 4 Pages: 1701-1707 2012	
"Fabrication and characterization of thin polyaniline films obtained by glancing angle deposition (GLAD) technique" Ion, FM; Barna, V ; Vulpe, S; Radu, A; Filimon, A ; Gentiana, H Digest Journal Of Nanomaterials And Biostructures Volume: 7 Issue: 4 Pages: 1481-1490 2012	0.23
"The effect of the electric field on the nematic liquid crystal molecular redistribution in the vicinity of an immersed spherocylindrical nanoparticle" Berlic, C; Moisescu, M; Barna, V Digest Journal Of Nanomaterials And Biostructures Volume: 7 Issue: 4 Pages: 1401-1412 2012	0.23
"Monte carlo type investigations on the nucleation processes in soft matter systems" Berlic, C., Barna, V. , Manolescu, B., Dena, D.; Digest Journal of Nanomaterials and Biostructures 8 (4), pp. 1845-1852, (2013)	0.202
"Investigations on the nucleation processes in frustrated polymeric systems" Berlic, C., Barna, V. , Manolescu, B., Mahler, B., Staicu, D.; Digest Journal of Nanomaterials and Biostructures 9 (3), pp. 919-928 (2014)	0.202
"Study of the instantaneous nucleation phenomena in soft matter systems by means of Monte Carlo simulation" Berlic, C., Barna, V. , Manolescu, B., Dena, D. ; Digest Journal of Nanomaterials and Biostructures 9 (1), pp. 197-204 (2014)	0.202
"Mirrorless dye doped ionic liquid lasers", V. Barna , L. De Cola, Optics Express 23, 9, 11936 (2015).	0.967
"Investigation Of Polymer Nucleation Process In N-Dimensional Space", C. Berlic, V. Barna , B. Manolescu; Digest Journal of Nanomaterials and Biostructures 10, 4, 1365 (2015)	0.139
"Sporadic Polymer Crystallization In The N-Dimensional Space", C. Berlic, V. Barna , Digest Journal of Nanomaterials and Biostructures 11, 1, 159 (2016).	0.15
TOTAL P (minim 3 puncte)	9.4 puncte

Rezumat Activitate de Cercetare A2:

Factor I (minim 4) = 9.85

Factor P (minim 3) = 9.4

III. Recunoastere si impactul activitatii (A3)

Punctaj obtinut = Factor C (minim 35p) = 73.47 puncte

3.1 Citari in reviste indexate ISI.

Articol si Citari Aferente	Nr Autori Efectiv	Nr Citari	Punctaj (Factor C)
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<p><u>1. "Fast electro-optic switching in nematic liquid crystals"</u> <u>A.L.Ionescu, A.Ionescu, E.S.Barna, V. Barna, N. Scaramuzza, Applied Physics Letters Vol 84(1) pp. 40-42. January 5, (2004)</u></p> <p>Title: Beam manipulating by metal-anisotropic-metal plasmonic lens Author(s): Bahramipناه, M.; Abrishamian, M. S.; Mirtaheri, S. A. Source: JOURNAL OF OPTICS Volume: 14 Issue: 10 Article Number: 105001 DOI: 10.1088/2040-8978/14/10/105001 Published: OCT 2012 Times Cited: 0 (from All Databases)</p> <p>Direct current plasma polymerization reactor for thin duomer film deposition By:Butoi, B (Butoi, B.)[1] ; Berezovski, C (Berezovski, C.)[1] ; Staicu, D (Staicu, D.)[1] ; Berezovski, R (Berezovski, R.)[1] ; Marin, AM (Marin, A. M.)[2] ; Barna, ES (Barna, E. S.)[1] JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 16 Issue: 9-10 Pages: 1212-1217 Published: SEP-OCT 2014</p> <p>Monte Carlo simulation of a nematic liquid crystal cell with a hemispheric defect on one electrode By: Berlic, C.; Barna, E.; Ciucu, C. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 12 Pages: 3854-3859 Published: DEC 2007</p> <p>Title: Atropisomerism in a thermally switchable, cyclometallated iridium complex Author(s): Howarth, Ashlee J.; Davies, David L.; Lelj, Francesco; et al. Source: DALTON TRANSACTIONS Volume: 41 Issue: 34 Pages: 10150-10152 DOI: 10.1039/c2dt31120h Published: 2012 Times Cited: 0 (from All Databases)</p> <p>Title: High Optical Contrast Liquid Crystal Switch and Analogue Response Attenuator at 1550 nm Author(s): Hu, Xuesong; Hadaler, Oliver; Coles, Harry J. Source: IEEE PHOTONICS TECHNOLOGY LETTERS Volume: 23 Issue: 22 Pages: 1655-1657 DOI: 10.1109/LPT.2011.2165840 Published: NOV 15 2011 Times Cited: 4 (from All Databases)</p> <p>Title: Mechanisms leading to fast relaxation of liquid crystal cells aligned with conductive polymers Author(s): Nicastro, Gaetano; Scaramuzza, Nicola; Bartolino, Roberto; et al. Source: JOURNAL OF APPLIED PHYSICS Volume: 108 Issue: 7 Article Number: 073519 DOI: 10.1063/1.3477326 Published: OCT 1 2010 Times Cited: 2 (from All Databases)</p> <p>Title: Thickness dependence of the anchoring strength in dye-doped nematic liquid crystal cells Author(s): Dascalu, C.; Ionescu, A. Th. Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 11 Issue: 6 Pages: 870-874 Published: JUN 2009 Times Cited: 1 (from All Databases)</p> <p>Title: IONIC CONTRIBUTIONS TO NEMATIC LIQUID CRYSTAL - CONDUCTING POLYMER INTERFACE PHENOMENA Author(s): Atasiei, Ruxandra; Dascalu, Constanta; Eseanu, Nicoleta; et al. Source: UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS Volume: 70 Issue: 4 Pages: 83-88 Published: 2008 Times Cited: 0 (from All Databases)</p>	5	10	2
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INFLUENCE OF THE KEY DEPOSITION CONTROL PARAMETERS ON THE STRUCTURE OF THIN FILMS IN A DIRECT CURRENT COLD PLASMA REACTOR FOR PHOTONICS APPLICATIONS

By: Staicu, D.; Butoi, B.; Armeanu, C.; et al.

Digest Journal of Nanomaterials and Biostructures Volume: 11 Issue: 4 Pages: 1375-1382

Published: OCT-DEC 2016

Periodic arrays of liquid crystalline torons in microchannels

By: Kim, Yun Ho; Gim, Min-Jun; Jung, Hee-Tae; et al.

RSC ADVANCES Volume: 5 Issue: 25 Pages: 19279-19283 Published: 2015

<p><u>2. “Role of delocalized electrons in polyaniline - nematogen cyanobiphenyls interaction“ A.L.Ionescu, A.Ionescu, E.S.Barna, V.Barna, N. Scaramuzza,Journal of Physical Chemistry B, 108(26), 8894-8899, (2004)</u></p> <p>Direct current plasma polymerization reactor for thin duromer film deposition By:Butoi, B (Butoi, B.)[1] ; Berezovski, C (Berezovski, C.)[1] ; Staicu, D (Staicu, D.)[1] ; Berezovski, R (Berezovski, R.)[1] ; Marin, AM (Marin, A. M.)[2] ; Barna, ES (Barna, E. S.)[1] JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 16 Issue: 9-10 Pages: 1212-1217 Published: SEP-OCT 2014</p> <p>Title: Role of dopants on the electro-optic effect in nematic liquid crystals aligned with doped polypyrrole Author(s): Raicopol, Matei; Dascalu, Constanta; Atasiei, Ruxandra; et al. Source: JOURNAL OF APPLIED PHYSICS Volume: 109 Issue: 12 Article Number: 124905 DOI: 10.1063/1.3597824 Published: JUN 15 2011 Times Cited: 0 (from All Databases)</p> <p>Title: Mechanisms leading to fast relaxation of liquid crystal cells aligned with conductive polymers Author(s): Nicastro, Gaetano; Scaramuzza, Nicola; Bartolino, Roberto; et al. Source: JOURNAL OF APPLIED PHYSICS Volume: 108 Issue: 7 Article Number: 073519 DOI: 10.1063/1.3477326 Published: OCT 1 2010 Times Cited: 2 (from All Databases)</p> <p>Title: Thickness dependence of the anchoring strength in dye-doped nematic liquid crystal cells Author(s): Dascalu, C.; Ionescu, A. Th. Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 11 Issue: 6 Pages: 870-874 Published: JUN 2009 Times Cited: 1 (from All Databases)</p> <p>Title: Electro-optical response due to mixed conduction electrodes, compared to ferroelectric ones, in asymmetric nematic liquid crystal cells Author(s): Castriota, Marco; Marino, Salvatore; Strangi, Giuseppe; et al. Source: IONICS Volume: 15 Issue: 2 Pages: 139-149 DOI: 10.1007/s11581-008-0256-6 Published: APR 2009 Times Cited: 0 (from All Databases)</p> <p>Title: Monte Carlo simulation of a nematic liquid crystal cell with a hemispheric defect on one electrode Author(s): Berlic, C.; Barna, E.; Ciucu, C. Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 12 Pages: 3854-3859 Published: DEC 2007 Times Cited: 3 (from All Databases)</p> <p>Title: Role of the adsorption phenomenon on the ionic equilibrium distribution and on the transient effects in electrolytic cells Author(s): Barbero, Giovanni; Freire, Fernando C. M.; Scalerandi, Marco; et al. Source: JOURNAL OF PHYSICAL CHEMISTRY B Volume: 110 Issue: 36 Pages: 17889-17897 DOI: 10.1021/jp062271n Published: SEP 14 2006 Times Cited: 7 (from All Databases)</p> <p>Title: Changes of the electro-optic response of nematic liquid crystal cells due to inserted titania-vanadia films Author(s): Marino, S; Castriota, M; Bruno, V; et al. Source: JOURNAL OF APPLIED PHYSICS Volume: 97 Issue: 1 Article Number: 013523 DOI: 10.1063/1.1826218 Published: JAN 1 2005 Times Cited: 7 (from All Databases)</p> <p>Title: Asymmetric response to electric field in nematic liquid crystal cells containing vanadium</p>	5	10	2
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<p><u>5."Distributed FeedbackMicro-Laser Array: Helixed Liquid Crystals Embedded in Holographically Sculptured Polymeric Microcavities" Barna V., Caputo R. , De Luca A., Scaramuzza N. , Strangi G. ,Versace C. , Umeton C. , Bartolino R. , Price G. N. ,Optics Express, Vol.14, 7, pp 2695-2705, (2006)</u></p> <p>1. Patterned liquid-crystal laser film for multi-dimensional multi-color emissive film technology By: Woltman, Scott J.; Crawford, Gregory P. JOURNAL OF THE SOCIETY FOR INFORMATION DISPLAY Volume: 15 Issue: 8 Pages: 559-564 Published: AUG 2007 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>2. Tunable integrated optical filter made of a glass ion-exchanged waveguide and an electro-optic composite holographic grating By: d'Alessandro, A.; Donisi, D.; De Sio, L.; et al. OPTICS EXPRESS Volume: 16 Issue: 13 Pages: 9254-9260 Published: JUN 23 2008 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 43</p>	6.3333	9	1.42

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<p>66. Random lasing from cholesteric liquid crystal microspheres dispersed in glycerol By: Li, Yong; Luo, Dan; Chen, Rui APPLIED OPTICS Volume: 55 Issue: 31 Pages: 8864-8867 Published: NOV 1 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>67. Random lasers tuning by combining a dye-doped liquid crystal and CdS nanoparticles By: Li, Longwu OPTIK Volume: 134 Pages: 1-8 Published: 2017 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>68. Random laser action from ceramic-doped polymer films By: Xiao, Shuhao; Li, Tingshuai; Huang, Dengfeng; et al. JOURNAL OF MODERN OPTICS Volume: 64 Issue: 13 Pages: 1289-1297 Published: 2017 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>69. Lasing optical cavities based on macroscopic scattering elements By: Consoli, Antonio; Lopez, Cefe SCIENTIFIC REPORTS Volume: 7 Article Number: 40141 Published: JAN 10 2017 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>70. Study on the Polarization of Random Lasers from Dye-Doped Nematic Liquid Crystals By: Ye, Lihua; Zhao, Chong; Feng, Yangyang; et al. NANOSCALE RESEARCH LETTERS Volume: 12 Article Number: 27 Published: JAN 11 2017 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>71. Polarization-asymmetric bidirectional random laser emission from a twisted nematic liquid crystal By: Chen, Chun-Wei; Huang, Huai-Ping; Jau, Hung-Chang; et al. JOURNAL OF APPLIED PHYSICS Volume: 121 Issue: 3 Article Number: 033102 Published: JAN 21 2017 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>72. All-optical guided-wave random laser in nematic liquid crystals</p>			
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<p>By: Perumbilavil, Sreekanth; Piccardi, Armando; Buchnev, Oleksandr; et al. OPTICS EXPRESS Volume: 25 Issue: 5 Pages: 4672-4679 Published: MAR 6 2017 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>73. Manipulation of Polarized Random Lasers from Dye-Doped Twisted Nematic Liquid Crystals Within Wedge Cells By: Lin, Sheng-Hung; Chen, Po-Yen; Li, Yi-Han; et al. IEEE PHOTONICS JOURNAL Volume: 9 Issue: 2 Article Number: 1502208 Published: APR 2017 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p>			
<p><u>7. "Thermal Behavior of Random Lasing in Dye Doped Nematic Liquid Crystals" Ferjani S., Barna V., De Luca A., Scaramuzza N., Versace C., Bartolino R., Strangi G. Applied Physics Letters 89, 121109 (2006)</u></p> <p>1. Dissipative self-confined optical beams in doped nematic liquid crystals By: Alberucci, Alessandro; Assanto, Gaetano JOURNAL OF NONLINEAR OPTICAL PHYSICS & MATERIALS Volume: 16 Issue: 3 Pages: 295-305 Published: SEP 2007 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 4 (from Web of Science Core Collection) Usage Count</p> <p>2. Model for light scattering and lasing in dye-doped nematic liquid crystals By: Veltri, A.; Infusino, M.; Ferjani, S.; et al. MOLECULAR CRYSTALS AND LIQUID CRYSTALS Volume: 488 Pages: 317-326 Published: 2008 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>3. Blue-shifted random-laser-mode selection in gain-assisted anisotropic complex fluids By: Veltri, Alessandro; Infusino, Melissa; Ferjani, Sameh; et al. PHYSICAL REVIEW E Volume: 83 Issue: 4 Article Number: 041711 Part: 1 Published: APR 29 2011 Check For Fulltext View AbstractView Abstract Times Cited: 4 (from Web of Science Core Collection) Usage Count</p> <p>4. 4,4'-Difluoro-4-bora-3a,4a-diaza-s-indacenes (BODIPYs) as components of novel light active materials By: Benstead, Michael; Mehl, Georg H.; Boyle, Ross W. TETRAHEDRON Volume: 67 Issue: 20 Pages: 3573-3601 Published: MAY 20 2011</p>	5.6666	25	4.416

<p>Check For Fulltext Full Text from Publisher Times Cited: 149 (from Web of Science Core Collection) Usage Count</p> <p>5. EFFECTS OF CARBON NANOTUBES ON THE ELECTRO-OPTICAL PROPERTIES OF NEMATIC LIQUID-CRYSTAL CELLS By: Ion, Florin Marius; Berezovski, Cristina; Berezovski, Robert; et al. ROMANIAN REPORTS IN PHYSICS Volume: 64 Issue: 4 Pages: 1011-1018 Published: 2012 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>6. Lowering the excitation threshold of a random laser using the dynamic scattering states of an organosiloxane smectic A liquid crystal By: Morris, Stephen M.; Gardiner, Damian J.; Qasim, Malik M.; et al. JOURNAL OF APPLIED PHYSICS Volume: 111 Issue: 3 Article Number: 033106 Published: FEB 1 2012 Check For Fulltext View AbstractView Abstract Times Cited: 10 (from Web of Science Core Collection) Usage Count</p> <p>7. Electrically switchable random to photonic band-edge laser emission in chiral nematic liquid crystals By: Morris, Stephen M.; Gardiner, Damian J.; Hands, Philip J. W.; et al. APPLIED PHYSICS LETTERS Volume: 100 Issue: 7 Article Number: 071110 Published: FEB 13 2012 Check For Fulltext View AbstractView Abstract Times Cited: 10 (from Web of Science Core Collection) Usage Count</p> <p>8. Random lasing in blue phase liquid crystals By: Chen, Chun-Wei; Jau, Hung-Chang; Wang, Chun-Ta; et al. OPTICS EXPRESS Volume: 20 Issue: 21 Pages: 23978-23984 Published: OCT 8 2012 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 39 (from Web of Science Core Collection) Usage Count</p> <p>9. Theoretical research on the random lasing from two-dimensional anisotropic media consisted of liquid crystal and mixed dye By: Liu, Hai; Lv, Jiantao OPTICAL AND QUANTUM ELECTRONICS Volume: 45 Issue: 3 Pages: 209-219 Published: MAR 2013 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>10. Polarization and polarization control of random lasers from dye-doped nematic liquid crystals By: Yao, Fengfeng; Zhou, Wenlong; Bian, Huanting; et al. OPTICS LETTERS Volume: 38 Issue: 9 Pages: 1557-1559 Published: MAY 1 2013</p>			
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<p> Check For Fulltext View AbstractView Abstract Times Cited: 18 (from Web of Science Core Collection) Usage Count </p> <p>11. Core-resonance cylindrical whispering gallery mode laser of dye-doped nematic liquid crystal By: Nagai, Yusuke; Fujimura, Ryushi; Kajikawa, Kotaro JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS Volume: 30 Issue: 8 Pages: 2233-2239 Published: AUG 2013 Check For Fulltext View AbstractView Abstract Times Cited: 3 (from Web of Science Core Collection) Usage Count </p> <p>12. Thermally tunable random laser in dye-doped liquid crystals By: Ye, Lihua; Yin, Zhile; Zhao, Chong; et al. JOURNAL OF MODERN OPTICS Volume: 60 Issue: 19 Pages: 1607-1611 Published: NOV 1 2013 Check For Fulltext View AbstractView Abstract Times Cited: 9 (from Web of Science Core Collection) Usage Count </p> <p>13. Solid state dye lasers with scattering feedback By: Costela, A.; Cerdan, L.; Garcia-Moreno, I. PROGRESS IN QUANTUM ELECTRONICS Volume: 37 Issue: 6 Pages: 348-382 Published: NOV 2013 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 6 (from Web of Science Core Collection) Usage Count </p> <p>14. Coherent random laser fluid of nematic liquid crystal emulsions By: Nagai, Yusuke; Fujimura, Ryushi; Kajikawa, Kotaro JAPANESE JOURNAL OF APPLIED PHYSICS Volume: 53 Issue: 1 Special Issue: SI Article Number: 01AE05 Part: 2 Published: JAN 2014 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count </p> <p>15. Nonlinear Optics of Nematic and Blue Phase Liquid Crystals By: Khoo, Iam Choon; Chen, Chun-Wei; Hong, Kuan Lung; et al. MOLECULAR CRYSTALS AND LIQUID CRYSTALS Volume: 594 Issue: 1 Special Issue: SI Pages: 31-41 Published: MAY 3 2014 Check For Fulltext View AbstractView Abstract Times Cited: 7 (from Web of Science Core Collection) Usage Count </p> <p>16. Electrically tunable Fabry - Perot lasing in nematic liquid crystal cells By: Nys, Inge; Beeckman, Jeroen; Neyts, Kristiaan JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS Volume: 31 Issue: 7 Pages: 1516-1524 Published: JUL 2014 Check For Fulltext View AbstractView Abstract </p>			
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<p>Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>17. Manipulation of the resonance characteristics of random lasers from dye-doped polymer dispersed liquid crystals in capillary tubes By: Lin, Ja-Hon; Hsiao, Ying-Li OPTICAL MATERIALS EXPRESS Volume: 4 Issue: 8 Pages: 1555-1563 Published: AUG 1 2014 Check For Fulltext View AbstractView Abstract Times Cited: 13 (from Web of Science Core Collection) Usage Count</p> <p>18. Random distributed feedback fibre lasers By: Turitsyn, Sergei K.; Babin, Sergey A.; Churkin, Dmitry V.; et al. PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS Volume: 542 Issue: 2 Pages: 133-193 Published: SEP 10 2014 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 76 (from Web of Science Core Collection) Highly Cited Paper Usage Count</p> <p>19. Optically controlled random lasing based on photothermal effect in dye-doped nematic liquid crystals By: Bian, Huanting; Yao, Fengfeng; Liu, Hai; et al. LIQUID CRYSTALS Volume: 41 Issue: 10 Pages: 1436-1441 Published: OCT 2014 Check For Fulltext View AbstractView Abstract Times Cited: 6 (from Web of Science Core Collection) Usage Count</p> <p>20. Random lasing in unbounded dye-doped nematic liquid crystals By: Bian, Huanting; Yao, Fengfeng; Gao, Yunpeng; et al. LIQUID CRYSTALS Volume: 43 Issue: 5 Pages: 581-586 Published: APR 8 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>21. Study of low-threshold and high-intensity random lasing in dye doped liquid crystals By: Ye, Lihua; Wang, Yan; Feng, Yangyang; et al. JOURNAL OF LASER APPLICATIONS Volume: 28 Issue: 2 Article Number: 022005 Published: MAY 2016 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>22. Plasmonic random lasing in polymer fiber By: Li, Songtao; Wang, Li; Zhai, Tianrui; et al. OPTICS EXPRESS Volume: 24 Issue: 12 Pages: 12748-12754 Published: JUN 13 2016 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 3</p>			
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<p>(from Web of Science Core Collection) Usage Count</p> <p>23. Polarization-asymmetric bidirectional random laser emission from a twisted nematic liquid crystal By: Chen, Chun-Wei; Huang, Huai-Ping; Jau, Hung-Chang; et al. JOURNAL OF APPLIED PHYSICS Volume: 121 Issue: 3 Article Number: 033102 Published: JAN 21 2017 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>24. All-optical guided-wave random laser in nematic liquid crystals By: Perumbilavil, Sreekanth; Piccardi, Armando; Buchnev, Oleksandr; et al. OPTICS EXPRESS Volume: 25 Issue: 5 Pages: 4672-4679 Published: MAR 6 2017 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>25. Influence of liquid crystalline phases on the tunability of a random laser By: Trull, Jose; Salud, Josep; Diez-Berart, Sergio; et al. PHYSICAL REVIEW E Volume: 95 Issue: 5 Article Number: 052704 Published: MAY 30 2017 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p>			
<p><u>8. "Random Lasing in Freely Suspended Dye Doped Nematic Liquid Crystals" Ferjani S., Barna V., De Luca A., Versace C., Strangi G. Optics Letters, Vol. 33 Issue 6, pp.557-559 (2008)</u></p> <p>1. Ultrafast random laser emission in a dye-doped silica gel powder By: Garcia-Revilla, Sara; Fernandez, Joaquin; Illarramendi, Maria Asuncion; et al. OPTICS EXPRESS Volume: 16 Issue: 16 Pages: 12251-12263 Published: AUG 4 2008 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 29 (from Web of Science Core Collection) Usage Count</p> <p>2. Random lasing action from ZnO-silica nanohybrids By: Stassinopoulos, Andreas; Das, Rabindra N.; Anastasiadis, Spiros H.; et al. JOURNAL OF OPTICS Volume: 12 Issue: 2 Article Number: 024006 Published: FEB 2010 Check For Fulltext View AbstractView Abstract Times Cited: 3 (from Web of Science Core Collection) Usage Count</p> <p>3. All-optically controllable random laser based on a dye-doped polymer-dispersed liquid crystal with nano-sized droplets By: Lee, C. -R.; Lin, S. -H.; Guo, C. -H.; et al.</p>	5	23	4.6

<p>OPTICS EXPRESS Volume: 18 Issue: 3 Pages: 2406-2412 Published: FEB 1 2010 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 19 (from Web of Science Core Collection) Usage Count</p> <p>4. All-optically controllable random laser based on a dye-doped liquid crystal added with a photoisomerizable dye By: Lee, Chia-Rong; Lin, Jia-De; Huang, Bo-Yuang; et al. OPTICS EXPRESS Volume: 18 Issue: 25 Pages: 25896-25905 Published: DEC 6 2010 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 25 (from Web of Science Core Collection) Usage Count</p> <p>5. Electrically controllable liquid crystal random lasers below the Freedericksz transition threshold By: Lee, Chia-Rong; Lin, Jia-De; Huang, Bo-Yuang; et al. OPTICS EXPRESS Volume: 19 Issue: 3 Pages: 2391-2400 Published: JAN 31 2011 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 34 (from Web of Science Core Collection) Usage Count</p> <p>6. 4,4'-Difluoro-4-bora-3a,4a-diaza-s-indacenes (BODIPYs) as components of novel light active materials By: Benstead, Michael; Mehl, Georg H.; Boyle, Ross W. TETRAHEDRON Volume: 67 Issue: 20 Pages: 3573-3601 Published: MAY 20 2011 Check For Fulltext Full Text from Publisher Times Cited: 149 (from Web of Science Core Collection) Usage Count</p> <p>7. Liquid-crystal photonic applications By: Beeckman, Jeroen; Neyts, Kristiaan; Vanbrabant, Pieter J. M. OPTICAL ENGINEERING Volume: 50 Issue: 8 Article Number: 081202 Published: AUG 2011 Check For Fulltext View AbstractView Abstract Times Cited: 61 (from Web of Science Core Collection) Usage Count</p> <p>8. Electrically switchable random to photonic band-edge laser emission in chiral nematic liquid crystals By: Morris, Stephen M.; Gardiner, Damian J.; Hands, Philip J. W.; et al. APPLIED PHYSICS LETTERS Volume: 100 Issue: 7 Article Number: 071110 Published: FEB 13 2012 Check For Fulltext View AbstractView Abstract Times Cited: 10 (from Web of Science Core Collection) Usage Count</p> <p>9. Random lasers in dye-doped polymer-dispersed liquid crystals containing silver nanoparticles</p>			
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<p>By: Li, LongWu; Deng, LuoGen PHYSICA B-CONDENSED MATTER Volume: 407 Issue: 24 Pages: 4826-4830 Published: DEC 15 2012 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 16 (from Web of Science Core Collection) Usage Count</p> <p>10. Random lasing from dye-doped chiral nematic liquid crystals in oriented and non-oriented cells By: Li, Long-Wu; Deng, Luo-Gen EUROPEAN PHYSICAL JOURNAL B Volume: 86 Issue: 3 Article Number: 112 Published: MAR 2013 Check For Fulltext View AbstractView Abstract Times Cited: 7 (from Web of Science Core Collection) Usage Count</p> <p>11. Tailoring of random lasing characteristics in dye-doped nematic liquid crystals By: Ye, Lihua; Hou, Cong; Lv, Changgui; et al. APPLIED PHYSICS B-LASERS AND OPTICS Volume: 115 Issue: 3 Pages: 303-309 Published: JUN 2014 Check For Fulltext View AbstractView Abstract Times Cited: 8 (from Web of Science Core Collection) Usage Count</p> <p>12. Random distributed feedback fibre lasers By: Turitsyn, Sergei K.; Babin, Sergey A.; Churkin, Dmitry V.; et al. PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS Volume: 542 Issue: 2 Pages: 133-193 Published: SEP 10 2014 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 76 (from Web of Science Core Collection) Highly Cited Paper Usage Count</p> <p>13. Lasing in nanocomposite random media By: Luan, Feng; Gu, Bobo; Gomes, Anderson S. L.; et al. NANO TODAY Volume: 10 Issue: 2 Pages: 168-192 Published: APR 2015 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 26 (from Web of Science Core Collection) Usage Count</p> <p>14. Electrically and thermally controllable nanoparticle random laser in a well-aligned dye-doped liquid crystal cell By: Lee, Chia-Rong; Lin, Shih-Hung; Guo, Jin-Wei; et al. OPTICAL MATERIALS EXPRESS Volume: 5 Issue: 6 Pages: 1469-1481 Published: JUN 1 2015 Check For Fulltext View AbstractView Abstract Times Cited: 9 (from Web of Science Core Collection) Usage Count</p>			
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<p>15. Random lasing characteristics in dye-doped semiconductor CdS nanoparticles By: Li, L. W. LASER PHYSICS LETTERS Volume: 13 Issue: 1 Article Number: 015206 Published: JAN 2016 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>16. Coherent random lasing from nano-scale aggregates of hybrid molecules by enhanced near zone scattering By: Yin, Leicheng; Liang, Yunyun; Yu, Bo; et al. RSC ADVANCES Volume: 6 Issue: 88 Pages: 85538-85544 Published: 2016 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>17. Quantitative analysis of "$\Delta I = I(s) - I(g)$" to coherent random lasing in solution systems with a series of solvents ordered by refractive index By: Yin, Leicheng; Liang, Yunyun; Yu, Bo; et al. RSC ADVANCES Volume: 6 Issue: 100 Pages: 98066-98070 Published: 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>18. Random lasing in unbounded dye-doped nematic liquid crystals By: Bian, Huanting; Yao, Fengfeng; Gao, Yunpeng; et al. LIQUID CRYSTALS Volume: 43 Issue: 5 Pages: 581-586 Published: APR 8 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>19. Multi-wavelength laser tuning based on cholesteric liquid crystals with nanoparticles By: Chen, Sheng-Chieh; Lin, Jia-De; Lee, Chia-Rong; et al. JOURNAL OF PHYSICS D-APPLIED PHYSICS Volume: 49 Issue: 16 Article Number: 165102 Published: APR 27 2016 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>20. Study of low-threshold and high-intensity random lasing in dye doped liquid crystals By: Ye, Lihua; Wang, Yan; Feng, Yangyang; et al. JOURNAL OF LASER APPLICATIONS Volume: 28 Issue: 2 Article Number: 022005 Published: MAY 2016 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p>			
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<p>21. Electrically controllable plasmonic enhanced coherent random lasing from dye-doped nematic liquid crystals containing Au nanoparticles By: Wang, Lei; Wan, Yuan; Shi, Lijie; et al. OPTICS EXPRESS Volume: 24 Issue: 16 Pages: 17593-17602 Published: AUG 8 2016 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>22. All-optically controllable nanoparticle random laser in a well-aligned laser-dye-doped liquid crystal By: Chang, Chi-Huang; Kuo, Chie-Tong; Sun, Han-Ying; et al. OPTICS EXPRESS Volume: 24 Issue: 25 Pages: 28739-28747 Published: DEC 12 2016 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>23. Random lasers tuning by combining a dye-doped liquid crystal and CdS nanoparticles By: Li, Longwu OPTIK Volume: 134 Pages: 1-8 Published: 2017 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p>			
<p><u>9. "Statistical Analysis of Random Lasing Emission Properties in Nematic Liquid Crystals"</u> <u>Ferjani S., Sorriso L-V, Barna V., De Luca A., De Marco R., Strangi G.</u> <u>Physical Review E 78, 011707 (2008)</u></p> <p>1. Waiting-time distributions of magnetic discontinuities: Clustering or Poisson process? By: Greco, A.; Matthaeus, W. H.; Servidio, S.; et al. PHYSICAL REVIEW E Volume: 80 Issue: 4 Article Number: 046401 Published: OCT 2009 Check For Fulltext View AbstractView Abstract Times Cited: 29 (from Web of Science Core Collection) Usage Count</p> <p>2. STATISTICAL ANALYSIS OF MAGNETIC FIELD REVERSALS IN LABORATORY DYNAMO AND IN PALEOMAGNETIC MEASUREMENTS By: Sorriso-Valvo, Luca; Carbone, Vincenzo; Bourgoin, Michael; et al. INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 23 Issue: 28-29 Pages: 5483-5491 Published: NOV 20 2009 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>3. Studies of random laser action in pi-conjugated polymers By: Tulek, A.; Vardeny, Z. V. JOURNAL OF OPTICS Volume: 12 Issue: 2 Article Number: 024008 Published: FEB 2010</p>	5.3333	18	3.377

<p> Check For Fulltext View AbstractView Abstract Times Cited: 13 (from Web of Science Core Collection) Usage Count </p> <p>4. All-optically controllable random laser based on a dye-doped polymer-dispersed liquid crystal with nano-sized droplets By: Lee, C. -R.; Lin, S. -H.; Guo, C. -H.; et al. OPTICS EXPRESS Volume: 18 Issue: 3 Pages: 2406-2412 Published: FEB 1 2010 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 19 (from Web of Science Core Collection) Usage Count </p> <p>5. All-optically controllable random laser based on a dye-doped liquid crystal added with a photoisomerizable dye By: Lee, Chia-Rong; Lin, Jia-De; Huang, Bo-Yuang; et al. OPTICS EXPRESS Volume: 18 Issue: 25 Pages: 25896-25905 Published: DEC 6 2010 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 25 (from Web of Science Core Collection) Usage Count </p> <p>6. Electrically controllable liquid crystal random lasers below the Freedericksz transition threshold By: Lee, Chia-Rong; Lin, Jia-De; Huang, Bo-Yuang; et al. OPTICS EXPRESS Volume: 19 Issue: 3 Pages: 2391-2400 Published: JAN 31 2011 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 34 (from Web of Science Core Collection) Usage Count </p> <p>7. Blue-shifted random-laser-mode selection in gain-assisted anisotropic complex fluids By: Veltri, Alessandro; Infusino, Melissa; Ferjani, Sameh; et al. PHYSICAL REVIEW E Volume: 83 Issue: 4 Article Number: 041711 Part: 1 Published: APR 29 2011 Check For Fulltext View AbstractView Abstract Times Cited: 4 (from Web of Science Core Collection) Usage Count </p> <p>8. Lowering the excitation threshold of a random laser using the dynamic scattering states of an organosiloxane smectic A liquid crystal By: Morris, Stephen M.; Gardiner, Damian J.; Qasim, Malik M.; et al. JOURNAL OF APPLIED PHYSICS Volume: 111 Issue: 3 Article Number: 033106 Published: FEB 1 2012 Check For Fulltext View AbstractView Abstract Times Cited: 10 (from Web of Science Core Collection) Usage Count </p> <p>9. Polarization and polarization control of random lasers from dye-doped nematic liquid crystals </p>			
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<p>By: Yao, Fengfeng; Zhou, Wenlong; Bian, Huanting; et al. OPTICS LETTERS Volume: 38 Issue: 9 Pages: 1557-1559 Published: MAY 1 2013 Check For Fulltext View AbstractView Abstract Times Cited: 18 (from Web of Science Core Collection) Usage Count</p> <p>10. Experimental analysis of intermittency in electrohydrodynamic instability By: Carbone, Francesco; Sorriso-Valvo, Luca EUROPEAN PHYSICAL JOURNAL E Volume: 37 Issue: 7 Article Number: 61 Published: JUL 23 2014 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>11. Random distributed feedback fibre lasers By: Turitsyn, Sergei K.; Babin, Sergey A.; Churkin, Dmitry V.; et al. PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS Volume: 542 Issue: 2 Pages: 133-193 Published: SEP 10 2014 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 76 (from Web of Science Core Collection) Highly Cited Paper Usage Count</p> <p>12. Electrically and thermally controllable nanoparticle random laser in a well-aligned dye-doped liquid crystal cell By: Lee, Chia-Rong; Lin, Shih-Hung; Guo, Jin-Wei; et al. OPTICAL MATERIALS EXPRESS Volume: 5 Issue: 6 Pages: 1469-1481 Published: JUN 1 2015 Check For Fulltext View AbstractView Abstract Times Cited: 9 (from Web of Science Core Collection) Usage Count</p> <p>13. Anomalous Scaling, Intermittency and Turbulence in Nematic Liquid Crystals By: Carbone, F.; Ciuchi, F.; Mazzulla, A.; et al. MOLECULAR CRYSTALS AND LIQUID CRYSTALS Volume: 614 Issue: 1 Special Issue: SI Pages: 67-85 Published: JUN 13 2015 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>14. Electrically controllable plasmonic enhanced coherent random lasing from dye-doped nematic liquid crystals containing Au nanoparticles By: Wang, Lei; Wan, Yuan; Shi, Lijie; et al. OPTICS EXPRESS Volume: 24 Issue: 16 Pages: 17593-17602 Published: AUG 8 2016 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p>			
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<p>15. INFLUENCE OF THE KEY DEPOSITION CONTROL PARAMETERS ON THE STRUCTURE OF THIN FILMS IN A DIRECT CURRENT COLD PLASMA REACTOR FOR PHOTONICS APPLICATIONS By: Staicu, D.; Butoi, B.; Armeanu, C.; et al. Digest Journal of Nanomaterials and Biostructures Volume: 11 Issue: 4 Pages: 1375-1382 Published: OCT-DEC 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>16. Soliton-assisted random lasing in optically-pumped liquid crystals By: Perumbilavil, Sreekanth; Piccardi, Armando; Buchnev, Oleksandr; et al. APPLIED PHYSICS LETTERS Volume: 109 Issue: 16 Article Number: 161105 Published: OCT 17 2016 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>17. Random lasing from cholesteric liquid crystal microspheres dispersed in glycerol By: Li, Yong; Luo, Dan; Chen, Rui APPLIED OPTICS Volume: 55 Issue: 31 Pages: 8864-8867 Published: NOV 1 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>18. Random lasers tuning by combining a dye-doped liquid crystal and CdS nanoparticles By: Li, Longwu OPTIK Volume: 134 Pages: 1-8 Published: 2017 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p>			
<p><u>10. "Nanoscale alignment and optical nanoimaging of a birefringent liquid" Barna V., De Luca A., Rosenblatt C. Nanotechnology 19, 32, 325709 (2008)</u></p> <p>1. Chiral Phases of a Confined Cholesteric Liquid Crystal: Anchoring-Dependent Helical and Smectic Self-Assembly in Nanochannels By: Calus, Sylwia; Busch, Mark; Kityk, Andriy V.; et al. JOURNAL OF PHYSICAL CHEMISTRY C Volume: 120 Issue: 21 Pages: 11727-11738 Published: JUN 2 2016 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>2. Inhomogeneous relaxation dynamics and phase behaviour of a liquid crystal confined in a nanoporous solid</p>	3	9	3

<p>By: Calus, Sylwia; Kityk, Andriy V.; Eich, Manfred; et al. SOFT MATTER Volume: 11 Issue: 16 Pages: 3176-3187 Published: 2015 Check For Fulltext View AbstractView Abstract Times Cited: 4 (from Web of Science Core Collection) Usage Count</p> <p>3. Liquid crystal quenched orientational disorder at an AFM-scribed alignment surface By: Pendery, J. S.; Atherton, T. J.; Nobili, M.; et al. SOFT MATTER Volume: 11 Issue: 11 Pages: 2220-2227 Published: 2015 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>4. Optical Imaging of Liquid Crystals at the Nanoscale By: Rosenblatt, Charles CHEMPHYSCHEM Volume: 15 Issue: 7 Special Issue: SI Pages: 1261-1269 Published: MAY 19 2014 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>5. Thermotropic nematic order upon nanocapillary filling By: Huber, Patrick; Busch, Mark; Calus, Sylwia; et al. PHYSICAL REVIEW E Volume: 87 Issue: 4 Article Number: 042502 Published: APR 5 2013 Check For Fulltext View AbstractView Abstract Times Cited: 14 (from Web of Science Core Collection) Usage Count</p> <p>6. Surface-induced weak orientational order and role of isotropic-nematic interface fluctuations in the appearance of an induced nematic film By: Pikina, E.; Rosenblatt, C. EUROPEAN PHYSICAL JOURNAL E Volume: 35 Issue: 9 Published: SEP 2012 Check For Fulltext View AbstractView Abstract Times Cited: 6 (from Web of Science Core Collection) Usage Count</p> <p>7. Mechanically Generated Surface Chirality at the Nanoscale By: Ferjani, Sameh; Choi, Yoonseuk; Pendery, Joel; et al. PHYSICAL REVIEW LETTERS Volume: 104 Issue: 25 Article Number: 257801 Published: JUN 24 2010 Check For Fulltext View AbstractView Abstract Times Cited: 25 (from Web of Science Core Collection) Usage Count</p> <p>8. Direct visualization and measurement of the extrapolation length on cooling toward the nematic- smectic-A phase transition temperature By: Choi, Yoonseuk; Rosenblatt, Charles PHYSICAL REVIEW E Volume: 81 Issue: 5 Article Number: 051708 Part: 1 Published:</p>			
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<p>MAY 2010 Check For Fulltext View AbstractView Abstract Times Cited: 3 (from Web of Science Core Collection) Usage Count</p> <p>9. Patterning-induced surface chirality and modulation of director twist in a nematic cell By: Choi, Yoonseuk; Atherton, Timothy; Ferjani, Sameh; et al. PHYSICAL REVIEW E Volume: 80 Issue: 6 Article Number: 060701 Part: 1 Published: DEC 2009 Check For Fulltext View AbstractView Abstract</p>			
<p><u>11. "Optical nanotomography of anisotropic fluids" De Luca A., Barna V., Atherton T., Carbone G., Sousa M., Rosenblatt C. Nature Physics, 4, 869 (2008)</u></p> <p>1. Optical control of plasmonic heating effects using reversible photo-alignment of nematic liquid crystals By: Palermo, Giovanna; Cataldi, Ugo; De Sio, Luciano; et al. APPLIED PHYSICS LETTERS Volume: 109 Issue: 19 Article Number: 191906 Published: NOV 7 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>2. Chiral Phases of a Confined Cholesteric Liquid Crystal: Anchoring-Dependent Helical and Smectic Self-Assembly in Nanochannels By: Calus, Sylwia; Busch, Mark; Kityk, Andriy V.; et al. JOURNAL OF PHYSICAL CHEMISTRY C Volume: 120 Issue: 21 Pages: 11727-11738 Published: JUN 2 2016 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>3. Inhomogeneous relaxation dynamics and phase behaviour of a liquid crystal confined in a nanoporous solid By: Calus, Sylwia; Kityk, Andriy V.; Eich, Manfred; et al. SOFT MATTER Volume: 11 Issue: 16 Pages: 3176-3187 Published: 2015 Check For Fulltext View AbstractView Abstract Times Cited: 4 (from Web of Science Core Collection) Usage Count</p> <p>4. Liquid crystal quenched orientational disorder at an AFM-scribed alignment surface By: Pendery, J. S.; Atherton, T. J.; Nobili, M.; et al. SOFT MATTER Volume: 11 Issue: 11 Pages: 2220-2227 Published: 2015 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>5. Optical Imaging of Liquid Crystals at the Nanoscale</p>	5.3333	13	2.439

<p>By: Rosenblatt, Charles CHEMPHYSICHEM Volume: 15 Issue: 7 Special Issue: SI Pages: 1261-1269 Published: MAY 19 2014 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>6. Living liquid crystals By: Zhou, Shuang; Sokolov, Andrey; Lavrentovich, Oleg D.; et al. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 111 Issue: 4 Pages: 1265-1270 Published: JAN 28 2014 Check For Fulltext View AbstractView Abstract Times Cited: 92 (from Web of Science Core Collection) Highly Cited Paper Usage Count</p> <p>7. Thermotropic nematic order upon nanocapillary filling By: Huber, Patrick; Busch, Mark; Calus, Sylwia; et al. PHYSICAL REVIEW E Volume: 87 Issue: 4 Article Number: 042502 Published: APR 5 2013 Check For Fulltext View AbstractView Abstract Times Cited: 14 (from Web of Science Core Collection) Usage Count</p> <p>8. Surface-induced weak orientational order and role of isotropic-nematic interface fluctuations in the appearance of an induced nematic film By: Pikina, E.; Rosenblatt, C. EUROPEAN PHYSICAL JOURNAL E Volume: 35 Issue: 9 Published: SEP 2012 Check For Fulltext View AbstractView Abstract Times Cited: 6 (from Web of Science Core Collection) Usage Count</p> <p>9. Predicting surface anchoring: molecular organization across a thin film of 5CB liquid crystal on silicon By: Pizzirusso, A.; Berardi, R.; Muccioli, L.; et al. CHEMICAL SCIENCE Volume: 3 Issue: 2 Pages: 573-579 Published: 2012 Check For Fulltext View AbstractView Abstract Times Cited: 32 (from Web of Science Core Collection) Usage Count</p> <p>10. Optical manipulation of colloids and defect structures in anisotropic liquid crystal fluids By: Trivedi, R. P.; Engstrom, D.; Smalyukh, I. I. JOURNAL OF OPTICS Volume: 13 Issue: 4 Special Issue: SI Article Number: 044001 Published: APR 2011 Check For Fulltext View AbstractView Abstract Times Cited: 40 (from Web of Science Core Collection) Usage Count</p> <p>11. Three-dimensional imaging of liquid crystal structures and defects by means of holographic</p>			
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<p>manipulation of colloidal nanowires with faceted sidewalls By: Engstrom, David; Trivedi, Rahul P.; Persson, Martin; et al. SOFT MATTER Volume: 7 Issue: 13 Pages: 6304-6312 Published: 2011 Check For Fulltext View AbstractView Abstract Times Cited: 20 (from Web of Science Core Collection) Usage Count</p> <p>12. Mechanically Generated Surface Chirality at the Nanoscale By: Ferjani, Sameh; Choi, Yoonseuk; Pendery, Joel; et al. PHYSICAL REVIEW LETTERS Volume: 104 Issue: 25 Article Number: 257801 Published: JUN 24 2010 Check For Fulltext View AbstractView Abstract Times Cited: 25 (from Web of Science Core Collection) Usage Count</p> <p>13. Direct visualization and measurement of the extrapolation length on cooling toward the nematic- smectic-A phase transition temperature By: Choi, Yoonseuk; Rosenblatt, Charles PHYSICAL REVIEW E Volume: 81 Issue: 5 Article Number: 051708 Part: 1 Published: MAY 2010</p>			
<p><u>12. "Photopolarimetric Investigations of the Anchoring Energy Strength for a Nematic Liquid Crystal on Polyaniline Boundary Surfaces" Barna V., Strangi G., Barna E.S. Journal of Optoelectronics and Advanced Materials, 10, 12, 3403 (2008)</u></p> <p>Direct current plasma polymerization reactor for thin duromer film deposition By:Butoi, B; Berezovski, C; Staicu, D; Berezovski, R ; Marin, AM; Barna, ES. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 16 Issue: 9-10 Pages: 1212-1217 Published: SEP-OCT 2014</p> <p>Title: Improvement in rise time of liquid crystals with patterned benzocyclobutene as alignment layer for photonic applications Author(s): Chan, A. H. P. Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 11 Issue: 11 Pages: 1743-1749 Published: NOV 2009 Times Cited: 0 (from All Databases)</p> <p>Title: Improvement in rise time of liquid crystals with patterned benzocyclobutene as alignment layer for photonic applications Author(s): Nabil, G.; Chan, H. P.; Uddin, M. A. Source: OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 3 Issue: 10 Pages: 1083-1089 Published: OCT 2009 Times Cited: 0 (from All Databases)</p>	3	3	1
<p><u>13. "Thermo-Recurrent Nematic Random Laser" Ferjani S., De Luca A., Barna V., Versace C., Strangi G. Optics Express, Vol. 17, No. 3, 2042, (2009)</u></p> <p>1. Polarization-asymmetric bidirectional random laser emission from a twisted nematic liquid crystal By: Chen, Chun-Wei; Huang, Huai-Ping; Jau, Hung-Chang; et al. JOURNAL OF APPLIED PHYSICS Volume: 121 Issue: 3 Article Number: 033102</p>	5	20	4

<p>Published: JAN 21 2017 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>2. Study on the Polarization of Random Lasers from Dye-Doped Nematic Liquid Crystals By: Ye, Lihua; Zhao, Chong; Feng, Yangyang; et al. NANOSCALE RESEARCH LETTERS Volume: 12 Article Number: 27 Published: JAN 11 2017 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>3. All-optically controllable nanoparticle random laser in a well-aligned laser-dye-doped liquid crystal By: Chang, Chi-Huang; Kuo, Chie-Tong; Sun, Han-Ying; et al. OPTICS EXPRESS Volume: 24 Issue: 25 Pages: 28739-28747 Published: DEC 12 2016 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>4. Optical control of plasmonic heating effects using reversible photo-alignment of nematic liquid crystals By: Palermo, Giovanna; Cataldi, Ugo; De Sio, Luciano; et al. APPLIED PHYSICS LETTERS Volume: 109 Issue: 19 Article Number: 191906 Published: NOV 7 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>5. Soliton-assisted random lasing in optically-pumped liquid crystals By: Perumbilavil, Sreekanth; Piccardi, Armando; Buchnev, Oleksandr; et al. APPLIED PHYSICS LETTERS Volume: 109 Issue: 16 Article Number: 161105 Published: OCT 17 2016 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>6. Bichromatic coherent random lasing from dye-doped polymer stabilized blue phase liquid crystals controlled by pump light polarization By: Wang, Lei; Wang, Meng; Yang, Mingchao; et al. CHINESE PHYSICS B Volume: 25 Issue: 9 Article Number: 094217 Published: SEP 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>7. Electrically controllable plasmonic enhanced coherent random lasing from dye-doped nematic liquid crystals containing Au nanoparticles By: Wang, Lei; Wan, Yuan; Shi, Lijie; et al. OPTICS EXPRESS Volume: 24 Issue: 16 Pages: 17593-17602 Published: AUG 8 2016</p>			
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<p> Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count </p> <p>8. Random lasing in unbounded dye-doped nematic liquid crystals By: Bian, Huanting; Yao, Fengfeng; Gao, Yunpeng; et al. LIQUID CRYSTALS Volume: 43 Issue: 5 Pages: 581-586 Published: APR 8 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count </p> <p>9. Random laser of dye-injected holey photonic-crystal fiber By: Yonenaga, Yaado; Fujimura, Ryushi; Shimojo, Masayuki; et al. PHYSICAL REVIEW A Volume: 92 Issue: 1 Article Number: 013824 Published: JUL 14 2015 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count </p> <p>10. Electrically and thermally controllable nanoparticle random laser in a well-aligned dye-doped liquid crystal cell By: Lee, Chia-Rong; Lin, Shih-Hung; Guo, Jin-Wei; et al. OPTICAL MATERIALS EXPRESS Volume: 5 Issue: 6 Pages: 1469-1481 Published: JUN 1 2015 Check For Fulltext View AbstractView Abstract Times Cited: 9 (from Web of Science Core Collection) Usage Count </p> <p>11. Random distributed feedback fibre lasers By: Turitsyn, Sergei K.; Babin, Sergey A.; Churkin, Dmitry V.; et al. PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS Volume: 542 Issue: 2 Pages: 133-193 Published: SEP 10 2014 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 76 (from Web of Science Core Collection) Highly Cited Paper Usage Count </p> <p>12. The electrically and magnetically controllable random laser from dye-doped liquid crystals By: Ye, Lihua; Liu, Bo; Zhao, Chong; et al. JOURNAL OF APPLIED PHYSICS Volume: 116 Issue: 5 Article Number: 053103 Published: AUG 7 2014 Check For Fulltext View AbstractView Abstract Times Cited: 5 (from Web of Science Core Collection) Usage Count </p> <p>13. Tailoring of random lasing characteristics in dye-doped nematic liquid crystals By: Ye, Lihua; Hou, Cong; Lv, Changgui; et al. APPLIED PHYSICS B-LASERS AND OPTICS Volume: 115 Issue: 3 Pages: 303-309 Published: JUN 2014 </p>			
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<p> Check For Fulltext View AbstractView Abstract Times Cited: 8 (from Web of Science Core Collection) Usage Count </p> <p>14. Coherent random laser fluid of nematic liquid crystal emulsions By: Nagai, Yusuke; Fujimura, Ryushi; Kajikawa, Kotaro JAPANESE JOURNAL OF APPLIED PHYSICS Volume: 53 Issue: 1 Special Issue: SI Article Number: 01AE05 Part: 2 Published: JAN 2014 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count </p> <p>15. Thermally tunable random laser in dye-doped liquid crystals By: Ye, Lihua; Yin, Zhile; Zhao, Chong; et al. JOURNAL OF MODERN OPTICS Volume: 60 Issue: 19 Pages: 1607-1611 Published: NOV 1 2013 Check For Fulltext View AbstractView Abstract Times Cited: 9 (from Web of Science Core Collection) Usage Count </p> <p>16. Core-resonance cylindrical whispering gallery mode laser of dye-doped nematic liquid crystal By: Nagai, Yusuke; Fujimura, Ryushi; Kajikawa, Kotaro JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS Volume: 30 Issue: 8 Pages: 2233-2239 Published: AUG 2013 Check For Fulltext View AbstractView Abstract Times Cited: 3 (from Web of Science Core Collection) Usage Count </p> <p>17. Random lasing from dye-doped chiral nematic liquid crystals in oriented and non-oriented cells By: Li, Long-Wu; Deng, Luo-Gen EUROPEAN PHYSICAL JOURNAL B Volume: 86 Issue: 3 Article Number: 112 Published: MAR 2013 Check For Fulltext View AbstractView Abstract Times Cited: 7 (from Web of Science Core Collection) Usage Count </p> <p>18. Thermo-switchable multi-wavelength laser emission from a dye-doped nematic liquid-crystal device By: Chen, Lujian; Liu, Zhe; Che, Kaijun; et al. THIN SOLID FILMS Volume: 520 Issue: 7 Pages: 2971-2975 Published: JAN 31 2012 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 3 (from Web of Science Core Collection) Usage Count </p> <p>19. Electrically controllable liquid crystal random lasers below the Freedericksz transition threshold By: Lee, Chia-Rong; Lin, Jia-De; Huang, Bo-Yuang; et al. OPTICS EXPRESS Volume: 19 Issue: 3 Pages: 2391-2400 Published: JAN 31 2011 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 34 </p>			
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<p>(from Web of Science Core Collection) Usage Count</p> <p>20. Alignment-to-polarization projection in dye-doped nematic liquid crystal microlasers By: Yoshida, Hiroyuki; Tagashira, Kenji; Kumagai, Takayuki; et al. OPTICS EXPRESS Volume: 18 Issue: 12 Pages: 12562-12568 Published: JUN 7 2010 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 4 (from Web of Science Core Collection) Usage Count</p>			
<p><u>14. "Direct measurement of surface-induced orientational order parameter profile above the nematic - isotropic phase transition temperature" Lee J-H., Atherton T., Petschek R.G., Barna V., De Luca A., Bruno E., Rosenblatt C. Physical Review Letters 102, 167801 (2009)</u></p> <p>1. Structure, elasticity and phase transitions in liquid crystals with deformations By: Kalinin, N. V.; Emelyanenko, A. V.; Liu, J. -H. PHASE TRANSITIONS Volume: 90 Issue: 1 Pages: 86-94 Published: 2017 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>2. Electroclinic effect in a chiral paranematic liquid-crystal layer above the bulk nematic-to-isotropic transition temperature By: Nemitz, Ian R.; Lacaze, Emmanuelle; Rosenblatt, Charles PHYSICAL REVIEW E Volume: 93 Issue: 2 Article Number: 022701 Published: FEB 1 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>3. Suspended, one-side anchored, or double-side anchored nematic droplets in an isotropic medium By: Kim, Soo-Dong; Guo, Jin-Kun; Song, Jang-Kun LIQUID CRYSTALS Volume: 43 Issue: 9 Pages: 1237-1243 Published: 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>4. Inhomogeneous relaxation dynamics and phase behaviour of a liquid crystal confined in a nanoporous solid By: Calus, Sylwia; Kityk, Andriy V.; Eich, Manfred; et al. SOFT MATTER Volume: 11 Issue: 16 Pages: 3176-3187 Published: 2015 Check For Fulltext View AbstractView Abstract Times Cited: 4 (from Web of Science Core Collection) Usage Count</p> <p>5.</p>	5.6666	16	2.826

<p>Effect of molecular-scale surface morphology on the surface melting of liquid crystals on self-assembled monolayers By: Son, Jong-Ho; Kim, Soo-Dong; Vij, Jagdish K.; et al. APPLIED PHYSICS LETTERS Volume: 105 Issue: 25 Article Number: 251601 Published: DEC 22 2014 Check For Fulltext View AbstractView Abstract Times Cited: 4 (from Web of Science Core Collection) Usage Count</p> <p>6. Optical Imaging of Liquid Crystals at the Nanoscale By: Rosenblatt, Charles CHEMPHYSCHEM Volume: 15 Issue: 7 Special Issue: SI Pages: 1261-1269 Published: MAY 19 2014 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>7. Field-induced dynamics of ferroelectric liquid crystals with elastic interfacial confinement By: Jezewski, Wojciech; Kuczynski, Wojciech; Dardas, Dorota; et al. SOFT MATTER Volume: 6 Issue: 12 Pages: 2786-2792 Published: 2010 Check For Fulltext View AbstractView Abstract Times Cited: 6 (from Web of Science Core Collection) Usage Count</p> <p>8. Predicting the Anchoring of Liquid Crystals at a Solid Surface: 5-Cyanobiphenyl on Cristobalite and Glassy Silica Surfaces of Increasing Roughness By: Roscioni, Otello Maria; Muccioli, Luca; Della Valle, Raffaele Guido; et al. LANGMUIR Volume: 29 Issue: 28 Pages: 8950-8958 Published: JUL 16 2013 Check For Fulltext View AbstractView Abstract Times Cited: 23 (from Web of Science Core Collection) Usage Count</p> <p>9. Thermotropic nematic order upon nanocapillary filling By: Huber, Patrick; Busch, Mark; Calus, Sylwia; et al. PHYSICAL REVIEW E Volume: 87 Issue: 4 Article Number: 042502 Published: APR 5 2013 Check For Fulltext View AbstractView Abstract Times Cited: 14 (from Web of Science Core Collection) Usage Count</p> <p>10. Surface-induced weak orientational order and role of isotropic-nematic interface fluctuations in the appearance of an induced nematic film By: Pikina, E.; Rosenblatt, C. EUROPEAN PHYSICAL JOURNAL E Volume: 35 Issue: 9 Published: SEP 2012 Check For Fulltext View AbstractView Abstract Times Cited: 6 (from Web of Science Core Collection) Usage Count</p> <p>11. Predicting surface anchoring: molecular organization across a thin film of 5CB liquid crystal on silicon</p>			
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<p>By: Pizzirusso, A.; Berardi, R.; Muccioli, L.; et al. CHEMICAL SCIENCE Volume: 3 Issue: 2 Pages: 573-579 Published: 2012 Check For Fulltext View AbstractView Abstract Times Cited: 32 (from Web of Science Core Collection) Usage Count</p> <p>12. Two transitions between isotropic and nematic phases in confined liquid crystals By: Emelyanenko, Alexander V.; Aya, Satoshi; Sasaki, Yuji; et al. PHYSICAL REVIEW E Volume: 84 Issue: 4 Article Number: 041701 Part: 1 Published: OCT 7 2011 Check For Fulltext View AbstractView Abstract Times Cited: 9 (from Web of Science Core Collection) Usage Count</p> <p>13. Hybrid Alignment Induced by Asymmetric Photopolymerization of Liquid Crystal-Reactive Mesogen Composition between Two Plastic Substrates By: Kim, Kyoung-Sun; Lee, Ji-Hoon JAPANESE JOURNAL OF APPLIED PHYSICS Volume: 50 Issue: 5 Article Number: 051701 Part: 1 Published: MAY 2011 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>14. Observation of Two Isotropic-Nematic Phase Transitions Near a Surface By: Aya, Satoshi; Sasaki, Yuji; Araoka, Fumito; et al. PHYSICAL REVIEW LETTERS Volume: 106 Issue: 11 Article Number: 117801 Published: MAR 14 2011 Check For Fulltext View AbstractView Abstract Times Cited: 24 (from Web of Science Core Collection) Usage Count</p> <p>15. Direct visualization and measurement of the extrapolation length on cooling toward the nematic- smectic-A phase transition temperature By: Choi, Yoonseuk; Rosenblatt, Charles PHYSICAL REVIEW E Volume: 81 Issue: 5 Article Number: 051708 Part: 1 Published: MAY 2010 Check For Fulltext View AbstractView Abstract Times Cited: 3 (from Web of Science Core Collection) Usage Count</p> <p>16. General discussion By: Marrink; Bolhuis; Berendsen; et al. FARADAY DISCUSSIONS Volume: 144 Pages: 203-222 Published: 2010 Check For Fulltext Times Cited: 0 (from Web of Science Core Collection) Usage Count</p>			
<p>15. "Laser action in dye doped liquid crystals: from periodic structures to random media" A.</p>	6.3333	4	0.63

<p><u>de Luca, V. Barna, S. Ferjani, R. Caputo, C. Versace, N. Scaramuzza, R. Bartolino, C. Umeton and G. Strangi</u> <u>Journal of Nonlinear Optical Physics & Materials, Vol. 18, No. 3, 349 (2009)</u></p> <p>Dispersion of gamma-Alumina Nano-Sized Spherical Particles in a Calamitic Liquid Crystal. Study and Optimization of the Confinement Effects By: Diez-Berart, Sergio; Lopez, David O.; Sebastian, Nerea; et al. MATERIALS Volume: 7 Issue: 3 Pages: 1502-1519 Published: MAR 2014</p> <p>Title: PROPAGATION OF TRANSVERSELY BOUNDED NONLINEAR ELECTROMAGNETIC PULSES THROUGH PERIODIC MEDIA Author(s): Castrejon-M, C.; Grimalsky, V.; Koshevaya, S.; et al. Source: JOURNAL OF NONLINEAR OPTICAL PHYSICS & MATERIALS Volume: 21 Issue: 2 Article Number: 1250022 DOI: 10.1142/S0218863512500221 Published: JUN 2012 Times Cited: 0 (from All Databases)</p> <p>Title: 4,4'-Difluoro-4-bora-3a,4a-diaza-s-indacenes (BODIPYs) as components of novel light active materials Author(s): Benstead, Michael; Mehl, Georg H.; Boyle, Ross W. Source: TETRAHEDRON Volume: 67 Issue: 20 Pages: 3573-3601 DOI: 10.1016/j.tet.2011.03.028 Published: MAY 20 2011 Times Cited: 20 (from All Databases)</p> <p>Title: Microseconds-Nanoseconds All-Optical Switching of Visible-Near Infrared (0.5 μm-1.55 μm) Lasers with Dye-Doped Nematic Liquid Crystals Author(s): Khoo, I. C.; Liou, J.; Stinger, M. V. Source: MOLECULAR CRYSTALS AND LIQUID CRYSTALS Volume: 527 Pages: 109-118 Article Number: PII 926023932 DOI: 10.1080/15421406.2010.486708 Published: 2010 Times Cited: 4 (from All Databases)</p>			
<p><u>16. "Nematic Director Distribution of a Liquid Crystalline System Presenting a Cylindrical Defect" C. Berlic, V. Barna,</u> <u>Journal of Optoelectronics and Advanced Materials, 12, 1427 - 1432 (2010).</u></p> <p>Direct current plasma polymerization reactor for thin duromer film deposition By:Butoi, B; Berezovski, C; Staicu, D; Berezovski, R ; Marin, AM; Barna, ES. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 16 Issue: 9-10 Pages: 1212-1217 Published: SEP-OCT 2014</p> <p>Title: EFFECTS OF CARBON NANOTUBES ON THE ELECTRO-OPTICAL PROPERTIES OF NEMATIC LIQUID-CRYSTAL CELLS Author(s): Ion, Florin Marius; Berezovski, Cristina; Berezovski, Robert; et al. Source: ROMANIAN REPORTS IN PHYSICS Volume: 64 Issue: 4 Pages: 1011-1018 Published: 2012 Times Cited: 0 (from All Databases)</p> <p>TOOLS FOR SCIENTIFIC THINKING-VIRTUAL LABORATORY FOR TEACHING PHYSICS By: Stefanescu, V.; Barna, E. S.; Tomsa, Gh. ROMANIAN REPORTS IN PHYSICS Volume: 69 Issue: 2 Article Number: 902 Published: 2017</p>	2	3	1.5
<p><u>17. "Monte Carlo simulation of the molecular distribution and optical properties of a nematic liquid crystal system with periodic surface gratings" Berlic and V. Barna,</u> <u>Optics Express, 18, 23, 23646 (2010).</u></p>	2	5	2.5

<p>1. EFFECTS OF CARBON NANOTUBES ON THE ELECTRO-OPTICAL PROPERTIES OF NEMATIC LIQUID-CRYSTAL CELLS By: Ion, Florin Marius; Berezovski, Cristina; Berezovski, Robert; et al. ROMANIAN REPORTS IN PHYSICS Volume: 64 Issue: 4 Pages: 1011-1018 Published: 2012 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>2. Application guided wave method in testing for a vertical aligned liquid crystal cell By: Li, Zhiguang; Wang, Xin; Ye, Wenjiang; et al. OPTIK Volume: 124 Issue: 15 Pages: 2191-2195 Published: 2013 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>3. Direct current plasma polymerization reactor for thin duromer film deposition By: Butoi, B.; Berezovski, C.; Staicu, D.; et al. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 16 Issue: 9-10 Pages: 1212-1217 Published: SEP-OCT 2014 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>4. INFLUENCE OF THE KEY DEPOSITION CONTROL PARAMETERS ON THE STRUCTURE OF THIN FILMS IN A DIRECT CURRENT COLD PLASMA REACTOR FOR PHOTONICS APPLICATIONS By: Staicu, D.; Butoi, B.; Armeanu, C.; et al. Digest Journal of Nanomaterials and Biostructures Volume: 11 Issue: 4 Pages: 1375-1382 Published: OCT-DEC 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>5. TOOLS FOR SCIENTIFIC THINKING-VIRTUAL LABORATORY FOR TEACHING PHYSICS By: Stefanescu, V.; Barna, E. S.; Tomsa, Gh. ROMANIAN REPORTS IN PHYSICS Volume: 69 Issue: 2 Article Number: 902 Published: 2017 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p>			
<p><u>18. "Efficient random laser effect in a new dye-nematic liquid crystalline composite" V. Barna, V. I. Vlad, A. Petris, I. Dancus, T. Bazaru, E. S. Barna, A. De Luca, S. Ferjani, G. Strangi, Rom. Rep. Phys., 62, 3, 444 (2010).</u></p> <p>Electrically tunable Fabry - Perot lasing in nematic liquid crystal cells By: Nys, Inge; Beeckman, Jeroen; Neyts, Kristiaan JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS Volume: 31 Issue: 7 Pages: 1516-1524 Published: JUL 2014</p>	6.3333	3	0.473

<p>Title: Random Laser Action in Weakly Nano-Scattering Solution Author(s): Yang, Liling; Feng, Guoying; Yao, Ke; et al. Source: INTEGRATED FERROELECTRICS Volume: 138 Pages: 9-15 DOI: 10.1080/10584587.2012.688419 Published: 2012 Times Cited: 0 (from All Databases)</p> <p>Reverse mode switching of the random laser emission in dye doped liquid crystals under homogeneous and inhomogeneous electric fields By: Shasti, M.; Coutino, P.; Mukherjee, S.; et al. PHOTONICS RESEARCH Volume: 4 Issue: 1 Pages: 7-12 Published: FEB 1 2016</p>			
<p><u>19. "Periodic and aperiodic liquid crystal-polymer composite structures realized via spatial light modulator direct holography"</u> <u>Infusino, M; De Luca, A; Barna, V; Caputo, R; Umeton, C</u> <u>OPTICS EXPRESS Volume: 20 Issue: 21 Pages: 23138-23143 2012</u></p> <p>1. Polymer-Stabilized Blue Phase Liquid Crystals for Photonic Applications By: Li, Yan; Huang, Shuaijia; Zhou, Pengcheng; et al. ADVANCED MATERIALS TECHNOLOGIES Volume: 1 Issue: 8 Article Number: 1600102 Published: NOV 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>2. Dimensional changes in slanted diffraction gratings recorded in photopolymers By: Fernandez, R.; Gallego, S.; Navarro-Fuster, V.; et al. OPTICAL MATERIALS EXPRESS Volume: 6 Issue: 11 Pages: 3455-3468 Published: NOV 1 2016 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>3. INFLUENCE OF THE KEY DEPOSITION CONTROL PARAMETERS ON THE STRUCTURE OF THIN FILMS IN A DIRECT CURRENT COLD PLASMA REACTOR FOR PHOTONICS APPLICATIONS By: Staicu, D.; Butoi, B.; Armeanu, C.; et al. Digest Journal of Nanomaterials and Biostructures Volume: 11 Issue: 4 Pages: 1375-1382 Published: OCT-DEC 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>4. Polymer-Stabilized Blue-Phase Liquid Crystal Fresnel Lens Cured With Patterned Light Using a Spatial Light Modulator By: Rong, Na; Li, Yan; Li, Xiao; et al. JOURNAL OF DISPLAY TECHNOLOGY Volume: 12 Issue: 10 Pages: 1008-1012 Published: OCT 2016 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p>	5	14	2.8

<p>5. Fork gratings based on ferroelectric liquid crystals By: Ma, Y.; Wei, B. Y.; Shi, L. Y.; et al. OPTICS EXPRESS Volume: 24 Issue: 6 Pages: 5822-5828 Published: MAR 21 2016 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>6. Blazed Gratings Recorded in Absorbent Photopolymers By: Fernandez, Roberto; Gallego, Sergi; Marquez, Andres; et al. MATERIALS Volume: 9 Issue: 3 Article Number: 195 Published: MAR 2016 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>7. Diffractive lenses recorded in absorbent photopolymers By: Fernandez, R.; Gallego, S.; Marquez, A.; et al. OPTICS EXPRESS Volume: 24 Issue: 2 Pages: 1559-1572 Published: JAN 25 2016 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 4 (from Web of Science Core Collection) Usage Count</p> <p>8. Optically isotropic, electrically tunable liquid crystal droplet arrays formed by photopolymerization-induced phase separation By: Dai, Haitao; Chen, Lin; Zhang, Bin; et al. OPTICS LETTERS Volume: 40 Issue: 12 Pages: 2723-2726 Published: JUN 15 2015 Check For Fulltext View AbstractView Abstract Times Cited: 2 (from Web of Science Core Collection) Usage Count</p> <p>9. Characterization and comparison of different photopolymers for low spatial frequency recording By: Fernandez, R.; Gallego, S.; Frances, J.; et al. OPTICAL MATERIALS Volume: 44 Pages: 18-24 Published: JUN 2015 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 5 (from Web of Science Core Collection) Usage Count</p> <p>10. Fast switchable optical vortex generator based on blue phase liquid crystal fork grating By: Ge, Shi-Jun; Ji, Wei; Cui, Guo-Xin; et al. OPTICAL MATERIALS EXPRESS Volume: 4 Issue: 12 Pages: 2535-2541 Published: DEC 1 2014 Check For Fulltext View AbstractView Abstract Times Cited: 17 (from Web of Science Core Collection) Usage Count</p> <p>11. Influence of Thickness on the Holographic Parameters of H-PDLC Materials By: Gallego, S.; Ortuno, M.; Marquez, A.; et al. INTERNATIONAL JOURNAL OF POLYMER SCIENCE Article Number: 528287 Published:</p>			
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<p>2014 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>12. Holographic polymer-dispersed liquid crystal Bragg grating integrated inside a solid core photonic crystal fiber By: Zito, Gianluigi; Pissadakis, Stavros OPTICS LETTERS Volume: 38 Issue: 17 Pages: 3253-3256 Published: SEP 1 2013 Check For Fulltext View AbstractView Abstract Times Cited: 14 (from Web of Science Core Collection) Usage Count</p> <p>13. Overmodulation Control in the Optimization of a H-PDLC Device with Ethyl Eosin as Dye By: Ortuno, Manuel; Riquelme, Marina; Gallego, Sergi; et al. INTERNATIONAL JOURNAL OF POLYMER SCIENCE Article Number: 357963 Published: 2013 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 9 (from Web of Science Core Collection) Usage Count</p> <p>14. POLYCRYPS visible curing for spatial light modulator based holography By: Infusino, Melissa; Ferraro, Antonio; De Luca, Antonio; et al. JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS Volume: 29 Issue: 11 Pages: 3170-3176 Published: NOV 2012 Check For Fulltext View AbstractView Abstract Times Cited: 6 (from Web of Science Core Collection) Usage Count</p>			
<p><u>21. Title: FTIR measurements of the anchoring properties of the liquid crystal (5CB) on polyaniline substrate in hybrid LC cells using conventional infrared (IR) sources at DA Phi NE-L laboratory</u> <u>Author(s): Barna, ET ; Iliescu, C ; Miron, C ; et al.</u> <u>Source: MATERIALE PLASTICE Volume: 41 Issue: 1 Pages: 36-40 Published: 2004</u></p> <p>Title: Investigation and comparative survey of some dental restorative materials Author(s): Gatin, E.; Ciucu, C.; Ciobanu, G.; et al. Source: OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS Volume: 2 Issue: 5 Pages: 284-290 Published: MAY 2008 Times Cited: 0 (from All Databases)</p> <p>Title: Experimental and theoretical study of electroconvection in homeotropic nematic liquid crystal Author(s): Miron, Cristina Source: REVISTA DE CHIMIE Volume: 59 Issue: 2 Pages: 181-184 Published: FEB 2008 Times Cited: 2 (from All Databases)</p> <p>Title: Monte Carlo simulation of a nematic liquid crystal cell with a hemispheric defect on one electrode Author(s): Berlic, C.; Barna, E.; Ciucu, C. Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 12 Pages: 3854-3859 Published: DEC 2007 Times Cited: 3 (from All Databases)</p>	5.3333	4	0.7504

<p>Direct current plasma polymerization reactor for thin duromer film deposition By:Butoi, B (Butoi, B.)[1] ; Berezovski, C (Berezovski, C.)[1] ; Staicu, D (Staicu, D.)[1] ; Berezovski, R (Berezovski, R.)[1] ; Marin, AM (Marin, A. M.)[2] ; Barna, ES (Barna, E. S.)[1] JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 16 Issue: 9-10 Pages: 1212-1217 Published: SEP-OCT 2014</p>			
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<p><u>22. “Molecular simulation of the free surface order in NLC samples“ N. Scaramuzza, C.Berlic, V. Barna, E.S.Barna, G.Strangi, A.Ionescu, Journal of Physical Chemistry B, 108(10), 3207-3210, (2004)</u></p> <p>New strategies and implications for the photoalignment of liquid crystalline polymers By: Seki, Takahiro POLYMER JOURNAL Volume: 46 Issue: 11 Pages: 751-768 Published: NOV 2014</p> <p>Free-surface molecular command systems for photoalignment of liquid crystalline materials By: Fukuhara, Kei; Nagano, Shusaku; Hara, Mitsuo; et al. NATURE COMMUNICATIONS Volume: 5 Article Number: 3320 Published: FEB 2014</p> <p>Liquid-Crystalline Polymer and Block Copolymer Domain Alignment Controlled by Free-Surface Segregation By: Fukuhara, Kei; Fujii, Yasuyoshi; Nagashima, Yuki; et al. ANGEWANDTE CHEMIE-INTERNATIONAL EDITION Volume: 52 Issue: 23 Pages: 5988-5991 Published: 2013</p> <p>Title: Experimental and theoretical study of electroconvection in homeotropic nematic liquid crystal Author(s): Miron, Cristina Source: REVISTA DE CHIMIE Volume: 59 Issue: 2 Pages: 181-184 Published: FEB 2008 Times Cited: 2 (from All Databases)</p> <p>Title: Monte Carlo simulation of a nematic liquid crystal cell with a hemispheric defect on one electrode Author(s): Berlic, C.; Barna, E.; Ciucu, C. Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 12 Pages: 3854-3859 Published: DEC 2007 Times Cited: 3 (from All Databases)</p> <p>Title: Role of the adsorption phenomenon on the ionic equilibrium distribution and on the transient effects in electrolytic cells Author(s): Barbero, Giovanni; Freire, Fernando C. M.; Scalerandi, Marco; et al. Source: JOURNAL OF PHYSICAL CHEMISTRY B Volume: 110 Issue: 36 Pages: 17889-17897 DOI: 10.1021/jp062271n Published: SEP 14 2006 Times Cited: 7 (from All Databases)</p> <p>Title: Dependence of the anchoring energy on the applied voltage in a nematic cell Author(s): Zola, R. S.; Evangelista, L. R.; Barbero, G. Source: JOURNAL OF PHYSICAL CHEMISTRY B Volume: 110 Issue: 23 Pages: 11047-11049 DOI: 10.1021/jp061815i Published: JUN 15 2006 Times Cited: 1 (from All Databases)</p> <p>Comparison of the Photoinduced Orientation Structure in the Bulk and at the Near-Surface of a Photoalignable Liquid Crystalline Polymer Film By: Kawatsuki, Nobuhiro; Taniguchi, Yusuke; Kondo, Mizuho; et al. MACROMOLECULES Volume: 48 Issue: 7 Pages: 2203-2210 Published: APR 14 2015</p> <p>Photoalignment of Liquid Crystalline Polymer Films Containing Mesostructures and a Free Surface Command Layer By: Seki, Takahiro; Fukuhara, Kei; Sano, Masami; et al. MOLECULAR CRYSTALS AND LIQUID CRYSTALS Volume: 614 Issue: 1 Special Issue: SI Pages:</p>	5.3333	14	2.626
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<p>118-123 Published: JUN 13 2015</p> <p>Light-directed alignment, surface morphing and related processes: recent trends By: Seki, Takahiro JOURNAL OF MATERIALS CHEMISTRY C Volume: 4 Issue: 34 Pages: 7895-7910 Published: 2016</p> <p>Inducing Planar Orientation in Side-Chain Liquid-Crystalline Polymer Systems via Interfacial Control By: Nagano, Shusaku CHEMICAL RECORD Volume: 16 Issue: 1 Pages: 378-392 Published: FEB 2016</p> <p>INFLUENCE OF THE KEY DEPOSITION CONTROL PARAMETERS ON THE STRUCTURE OF THIN FILMS IN A DIRECT CURRENT COLD PLASMA REACTOR FOR PHOTONICS APPLICATIONS By: Staicu, D.; Butoi, B.; Armeanu, C.; et al. Digest Journal of Nanomaterials and Biostructures Volume: 11 Issue: 4 Pages: 1375-1382 Published: OCT-DEC 2016</p> <p>Evaluations of Mesogen Orientation in Thin Films of Polyacrylate with Cyanobiphenyl Side Chain By: Tanaka, Daisuke; Mizuno, Tasuku; Hara, Mitsuo; et al. LANGMUIR Volume: 32 Issue: 15 Pages: 3737-3745 Published: APR 19 2016</p> <p>Electric field effects on phase transitions in the 8CB liquid crystal doped with ferroelectric nanoparticles By: Lin, Y.; Daoudi, A.; Segovia-Mera, A.; et al. PHYSICAL REVIEW E Volume: 93 Issue: 6 Article Number: 062702 Published: JUN 3 2016</p>			
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<p><u>23. A model of melt-solid phase transition for linear polymers</u> <u>By: Barna, V (Barna, V); Miron, C (Miron, C); Berlic, C (Berlic, C); Barna, ES (Barna, ES)</u> <u>MATERIALE PLASTICE</u> <u>Volume: 40</u> <u>Issue: 4</u> <u>Pages: 168-170</u> <u>Published: 2003</u></p> <p>Direct current plasma polymerization reactor for thin duromer film deposition By: Butoi, B (Butoi, B.)[1] ; Berezovski, C (Berezovski, C.)[1] ; Staicu, D (Staicu, D.)[1] ; Berezovski, R (Berezovski, R.)[1] ; Marin, AM (Marin, A. M.)[2] ; Barna, ES (Barna, E. S.)[1] JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 16 Issue: 9-10 Pages: 1212-1217 Published: SEP-OCT 2014</p> <p>Direct current plasma polymerization reactor for thin duromer film deposition By: Butoi, B.; Berezovski, C.; Staicu, D.; et al. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 16 Issue: 9-10 Pages: 1212-1217 Published: SEP-OCT 2014</p>	4	2	0.5
<p><u>24. Molecular Simulation of a Nematic Liquid Crystal Cell with Asymmetric Recurrent Boundary Conditions</u> <u>By: Berlic, C.; Barna, V.</u> <u>MOLECULAR CRYSTALS AND LIQUID CRYSTALS Volume: 549 Special Issue: SI</u> <u>Pages: 140-149 Published: 2011</u></p> <p>1. TOOLS FOR SCIENTIFIC THINKING-VIRTUAL LABORATORY FOR TEACHING PHYSICS By: Stefanescu, V.; Barna, E. S.; Tomsa, Gh. ROMANIAN REPORTS IN PHYSICS Volume: 69 Issue: 2 Article Number: 902 Published: 2017 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>2. INFLUENCE OF THE KEY DEPOSITION CONTROL PARAMETERS ON THE STRUCTURE OF THIN FILMS IN A DIRECT CURRENT COLD PLASMA REACTOR FOR PHOTONICS APPLICATIONS By: Staicu, D.; Butoi, B.; Armeanu, C.; et al. Digest Journal of Nanomaterials and Biostructures Volume: 11 Issue: 4 Pages: 1375-1382 Published: OCT-DEC 2016 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>3. Direct current plasma polymerization reactor for thin duromer film deposition By: Butoi, B.; Berezovski, C.; Staicu, D.; et al. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 16 Issue: 9-10 Pages: 1212-1217 Published: SEP-OCT 2014 Check For Fulltext View AbstractView Abstract</p>	2	3	1.5
<p><u>25. THE EFFECT OF THE ELECTRIC FIELD ON THE NEMATIC LIQUID CRYSTAL MOLECULAR REDISTRIBUTION IN THE VICINITY OF AN IMMERSSED SPHEROCYLINDRICAL NANOPARTICLE</u></p>	3	2	0.66

<p><u>By:Berlic, C; Moiescu, M; Barna, V</u> <u>DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES</u> <u>Volume: 7, Issue: 4, Pages: 1401-1412 Published: OCT-DEC 2012</u></p> <p>Direct current plasma polymerization reactor for thin duromer film deposition By:Butoi, B; Berezovski, C; Staicu, D; Berezovski, R ; Marin, AM; Barna, ES. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 16 Issue: 9-10 Pages: 1212-1217 Published: SEP-OCT 2014</p> <p>INFLUENCE OF THE KEY DEPOSITION CONTROL PARAMETERS ON THE STRUCTURE OF THIN FILMS IN A DIRECT CURRENT COLD PLASMA REACTOR FOR PHOTONICS APPLICATIONS By: Staicu, D.; Butoi, B.; Armeanu, C.; et al. Digest Journal of Nanomaterials and Biostructures Volume: 11 Issue: 4 Pages: 1375-1382 Published: OCT-DEC 2016</p>			
<p><u>26. Amplification of light and random laser action in partially ordered dye-doped nematics</u> <u>By:Barna,V, Strangi, G, De Luca,A , Ferjani, S.</u> <u>OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS</u> <u>Volume: 5 Issue: 11 Pages: 1154-1158 Published: NOV 2011</u></p> <p>Tailoring of random lasing characteristics in dye-doped nematic liquid crystals By: Ye, Lihua; Hou, Cong; Lv, Changgui; et al. APPLIED PHYSICS B-LASERS AND OPTICS Volume: 115 Issue: 3 Pages: 303-309 Published: JUN 2014</p> <p>Polarization-asymmetric bidirectional random laser emission from a twisted nematic liquid crystal By: Chen, Chun-Wei; Huang, Huai-Ping; Jau, Hung-Chang; et al. JOURNAL OF APPLIED PHYSICS Volume: 121 Issue: 3 Article Number: 033102 Published: JAN 21 2017</p>	4	2	0.5
<p><u>27. MONTE CARLO SIMULATION STUDY FOR A NEGATIVE DIELECTRIC ANISOTROPY NEMATIC LIQUID CRYSTAL PRESENTING A DEFECT NANOPARTICLE UNDER APPLIED ELECTRIC FIELD CONDITIONS</u></p> <p><u>By:Berlic, C; Moiescu, M; Manolescu, B; Barna, V.</u> <u>DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES</u> <u>Volume: 7 Issue: 4 Pages: 1701-1707 Published: OCT-DEC 2012</u></p> <p>Direct current plasma polymerization reactor for thin duromer film deposition By:Butoi, B; Berezovski, C; Staicu, D; Berezovski, R ; Marin, AM; Barna, ES. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 16 Issue: 9-10 Pages: 1212-1217 Published: SEP-OCT 2014</p>	4	1	0.25

<p><u>28. Analytical approach for type-II semiconductor spherical core-shell quantum dots heterostructures with wide band gaps</u> <u>By: Cheche, TO ; Barna, V; Chang, YC</u> <u>SUPERLATTICES AND MICROSTRUCTURES</u> <u>Volume: 60 Pages: 475-486 Published: AUG 2013</u></p> <p>1. Aqueous Based Semiconductor Nanocrystals By: Jing, Lihong; Kershaw, Stephen V.; Li, Yilin; et al. CHEMICAL REVIEWS Volume: 116 Issue: 18 Special Issue: SI Pages: 10623-10730 Published: SEP 28 2016 Check For Fulltext View AbstractView Abstract Times Cited: 9 (from Web of Science Core Collection) Usage Count</p> <p>2. Optical properties of ZnTe/ZnSe core/shell nanowire By: Georgescu, S. I.; Micluta-Campeanu, S. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 17 Issue: 11-12 Pages: 1661-1667 Published: NOV-DEC 2015 Check For Fulltext View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>3. Strain influence on optical absorption of giant semiconductor colloidal quantum dots By: Pahomi, Tudor E.; Cheche, Tiberius O. CHEMICAL PHYSICS LETTERS Volume: 612 Pages: 33-38 Published: SEP 18 2014 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 6 (from Web of Science Core Collection) Usage Count</p> <p>4. Exciton eigenstates and biexciton interaction energies in a spherical core/shell semiconductor hetero-nano structure By: Kim, Seok-Seong; Yeon, Kyu Hwang; Hong, Suc-Kyoung; et al. CURRENT APPLIED PHYSICS Volume: 14 Issue: 9 Pages: 1325-1330 Published: SEP 2014 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 0 (from Web of Science Core Collection) Usage Count</p> <p>5. Analytical approach for strain field in core multi-shell quantum dots By: Pahomi, T. E.; Stanciu, S. B. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 16 Issue: 5-6 Pages: 501-507 Published: MAY-JUN 2014 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p>	3	5	1.66

<p><u>29. "Coherent backscattering and dynamical light localization in liquid crystals driven throughout chaotic regimes" Carbone F., De Luca A., Barna V., Ferjani S., Vena C., Versace C., Strangi G. Optics Express 17, 16, 13435 (2009)</u></p> <p>1. Reverse mode switching of the random laser emission in dye doped liquid crystals under homogeneous and inhomogeneous electric fields By: Shasti, M.; Coutino, P.; Mukherjee, S.; et al. PHOTONICS RESEARCH Volume: 4 Issue: 1 Pages: 7-12 Published: FEB 1 2016 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p> <p>2. Reverse-mode polymer dispersed liquid crystal films prepared by patterned polymer walls By: Wang, Huihui; Gong, He; Song, Ping; et al. LIQUID CRYSTALS Volume: 42 Issue: 9 Pages: 1320-1328 Published: SEP 2 2015 Check For Fulltext View AbstractView Abstract Times Cited: 1 (from Web of Science Core Collection) Usage Count</p>	5.66	2	0.353
<p><u>30. "Synchrotron infrared microspectroscopy of nematic liquid crystals in polymeric micro cavities" V. Barna and E.S. Barna, Optoelectronics and Advanced Materials – Rapid Communications, 5, 10, 1046 (2011)</u></p> <p>Opportunities and challenges for polymer science using synchrotron-based infrared spectroscopy By: Ellis, Gary J.; Martin, Michael C. EUROPEAN POLYMER JOURNAL Volume: 81 Pages: 505-531 Published: AUG 2016 Check For Fulltext Full Text from Publisher View AbstractView Abstract Times Cited: 3 (from Web of Science Core Collection) Usage Count</p>	2	1	0.5
<p><u>31. "Theoretical approach for type-i semiconductor spherical core-shell quantum dots heterostructure with wide band gaps" T. O. Cheche, V. Barna, I. Stamatiu; Journal Of Optoelectronics And Advanced Materials Vol. 15, No. 7-8 p. 615 - 620 (2013)</u></p> <p>Optical properties of ZnTe/ZnSe core/shell nanowire By: Georgescu, S. I.; Micluta-Campeanu, S. JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 17 Issue: 11-12 Pages: 1661-1667 Published: NOV-DEC 2015</p>	3	1	0.33
<p><u>32. "Para-phenylene derivatives obtained by plasma polymerization technique" Nastase, C., Dumitru, A., Barna, V., Nastase, F.; Digest Journal of Nanomaterials and Biostructures 8 (4), pp. 1811-1818 (2013)</u></p> <p>CHARACTERIZATION OF SUPER HYDROPHILIC FILMS PRODUCED IN DBD PLASMA AT ATMOSPHERIC PRESSURE By: Rusu, B. G.; Pohoata, V.; Ionita, C.; et al. DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES Volume: 10 Issue: 3 Pages: 941-945 Published: JUL-SEP 2015</p>	4	1	0.25
<p><u>33. "Monte carlo type investigations on the nucleation processes in soft matter systems" Berlic, C., Barna, V., Manolescu, B., Dena, D.; Digest Journal of Nanomaterials and Biostructures 8 (4), pp. 1845-1852, (2013)</u></p>	4	1	0.25

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<u>34. "Mirrorless dye doped ionic liquid lasers", V. Barna, L. De Cola, Optics Express 23, 9, 11936 (2015).</u> Droplet lasers: a review of current progress By: McGloin, D. REPORTS ON PROGRESS IN PHYSICS Volume: 80 Issue: 5 Article Number: 054402 Published: MAY 2017	2	1	0.5
<u>35. "Investigation Of Polymer Nucleation Process In N-Dimensional Space", C. Berlic, V. Barna, B. Manolescu; Digest Journal of Nanomaterials and Biostructures 10, 4, 1365 (2015)</u> INFLUENCE OF THE KEY DEPOSITION CONTROL PARAMETERS ON THE STRUCTURE OF THIN FILMS IN A DIRECT CURRENT COLD PLASMA REACTOR FOR PHOTONICS APPLICATIONS By: Staicu, D.; Butoi, B.; Armeanu, C.; et al. Digest Journal of Nanomaterials and Biostructures Volume: 11 Issue: 4 Pages: 1375-1382 Published: OCT-DEC 2016	3	1	0.33
<u>TOTAL (minim 35 puncte)</u>			73.47