Ivan H Bechtold

List of Publications by Year
in descending order

123	2,093	236925	289244
papers	citations	25 h-index	40 g-index

126	126	126	2466
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strongly polarized light from highly aligned electrospun luminescent natural rubber fibers. Journal of Luminescence, 2022, 241, 118498.	3.1	3
2	Enhancing the phosphorescence decay pathway of Cu(<scp>i</scp>) emitters â€“ the role of copperâ€“iodide moiety. Dalton Transactions, 2022, 51, 1008-1018.	3.3	3
3	Aroyloxycinnamates with wide mesophase temperature ranges. Liquid Crystals, 2022, 49, 812-820.	2.2	1
4	Thermal annealing of natural rubber films controls wettability and enhances cytocompatibility. Surfaces and Interfaces, 2022, 31, 102048.	3.0	2
5	Columnar mesomorphism from a new luminescent thiazolo[5,4-d]thiazole-based core. Liquid Crystals, 2021, 48, 182-189.	2.2	0
6	When hydrogen bond tailors molecular packing in non-anisometric molecules. The case study of N-alkyl 1,3-diphenyl-4,5-dihydro-1H-pyrazole-5-carboximidamides. Liquid Crystals, 2021, 48, 395-404.	2.2	1
7	Highly luminescent liquid crystals by connecting 1,3,4-oxadiazole with thiazolo[5,4-d]thiazole units. Journal of Molecular Liquids, 2021, 321, 114887.	4.9	22
8	Alkoxycarbonylphenyl 4-alkoxycinnamate liquid crystals with antiparallel packing. Liquid Crystals, 2021, 48, 1908-1918.	2.2	0
9	Surface Wettability of a Natural Rubber Composite under Stretching: A Model to Predict Cell Survival. Langmuir, 2021, 37, 4639-4646.	3.5	4
10	Nematic Triphenyltriazine Triesters and the Induction of the Columnar Mesophase by Fluorine Substitution. Chemistry - A European Journal, 2021, 27, 9003-9010.	3.3	7
11	Speedingâ€up Thermally Activated Delayed Fluorescence in Cu(I) Complexes Using Aminophosphine Ligands. European Journal of Inorganic Chemistry, 2021, 2021, 3177-3184.	2.0	12
12	Electrochemical impedance biosensor for detection of saxitoxin in aqueous solution. Analytical and Bioanalytical Chemistry, 2021, 413, 6393-6399.	3.7	17
13	Enhanced Performance of Allâ€Solution Processed Multilayer OLEDs by Photoluminescence Lifetime Reduction of Cu(I) Complex Emitters Containing Chalcogenolateâ€Diimine Ligands. European Journal of Inorganic Chemistry, 2021, 2021, 3412-3418.	2.0	1
14	Shining rings: The effect of the rigid core and benzazole heterocycles on the properties of luminescent calamitic liquid crystals. Journal of Molecular Liquids, 2021, 338, 116614.	4.9	11
15	Halogenation of a twisted non-polar Ï€-system as a tool to modulate phosphorescence at room temperature. Chemical Science, 2021, 12, 15116-15127.	7.4	17
16	Exploring Taxifolin Polymorphs: Insights on Hydrate and Anhydrous Forms. Pharmaceutics, 2021, 13, .	4.5	0
17	Highly emissive MAPbBr3 perovskite QDs by ligand-assisted reprecipitation: the antisolvent effect. Nanotechnology, 2021, 33, .	2.6	2
18	Exploring Taxifolin Polymorphs: Insights on Hydrate and Anhydrous Forms. Pharmaceutics, 2021, 13, 1328.	4.5	6

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19	Isoxazoline- and isoxazole-liquid crystalline schiff bases: A puzzling game dictated by entropy and enthalpy effects. Journal of Molecular Liquids, 2020, 298, 111750.	4.9	10
20	Reducing lifetime in Cu(<scp>i</scp>) complexes with thermally activated delayed fluorescence and phosphorescence promoted by chalcogenolateâ€“diimine ligands. Journal of Materials Chemistry C, 2020, 8, 14595-14604.	5.5	20
21	Stabilization of ZnO quantum dots by preferred 1:2 interaction with a liquid crystal molecule. Journal of Molecular Liquids, 2020, 310, 113273.	4.9	6
22	Insight into Outâ€ofâ€Layer Fluctuations in the Smectic A Stability of 3,5â€Diarylisoxazole Liquid Crystals. ChemPhysChem, 2020, 21, 1408-1419.	2.1	7
23	Selenylated-oxadiazoles as promising DNA intercalators: Synthesis, electronic structure, DNA interaction and cleavage. Dyes and Pigments, 2020, 180, 108519.	3.7	26
24	Blending with a phthalocyanine leads to improved P3HT donor layers for OPVs. Synthetic Metals, 2020, 263, 116367.	3.9	3
25	Electrospun natural rubber fibers-based flexible conductive membranes. Revista Materia, 2020, 25, .	0.2	1
26	Luminescent liquid crystals based on 2,1,3-benzoxadiazole: conducive heterocycle or poor cousin of benzothiadiazole?. Liquid Crystals, 2019, 46, 1707-1717.	2.2	15
27	Influence of nonradiative Auger process in the lanthanide complexes lifetime near interfaces in organic light-emitting diode structures. Journal of Applied Physics, 2019, 126, 165501.	2.5	4
28	Molecular 5,8-Ï€-extended quinoxaline derivatives as chromophores for photoluminescence applications. Journal of Molecular Liquids, 2019, 296, 111763.	4.9	3
29	An unusual plank-shaped nematogen with a graphene nanoribbon core. Journal of Materials Chemistry C, 2019, 7, 12080-12085.	5.5	5
30	High efficient Light-Emitting Electrochemical Cells based on ionic liquids 1,2,3-triazolium. Organic Electronics, 2019, 73, 172-181.	2.6	6
31	Optical Chemosensors and Chemodosimeters for Anion Detection Based on Merrifield Resin Functionalized with Brookerâ€™s Merocyanine Derivatives. ACS Applied Polymer Materials, 2019, 1, 1757-1768.	4.4	11
32	New Boron(III) Blue Emitters for All-Solution Processed OLEDs: Molecular Design Assisted by Theoretical Modeling. European Journal of Inorganic Chemistry, 2019, 2019, 2246-2246.	2.0	0
33	New Boron(III) Blue Emitters for All-Solution Processed OLEDs: Molecular Design Assisted by Theoretical Modeling. European Journal of Inorganic Chemistry, 2019, 2019, 2247-2257.	2.0	15
34	Persistent Solidâ€State Phosphorescence and Delayed Fluorescence at Room Temperature by a Twisted Hydrocarbon. Angewandte Chemie - International Edition, 2019, 58, 6982-6986.	13.8	77
35	Phase-dependent photoluminescence of non-symmetric 2,1,3-benzothiadiazole liquid crystals. Dyes and Pigments, 2019, 163, 300-307.	3.7	8
36	Efficient terbium complex based on a novel pyrazolone derivative ligand used in solution-processed OLEDs. Journal of Luminescence, 2019, 208, 57-62.	3.1	29

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37	Bromine-terminated azobenzene liquid crystals. Liquid Crystals, 2019, 46, 655-665.	2.2	12
38	Synthesis, structure and OLED application of a new europium(III) complex: {tris-(thenoyltrifluoroacetonate)[1,2,5]selenadiazolo[3,4-f][1,10]phenanthroline}europium(III). Inorganica Chimica Acta, 2018, 473, 75-82.	2.4	22
39	Investigation of thermal and luminescent properties in 4,7-diphenylethynyl-2,1,3-benzothiadiazole systems. Liquid Crystals, 2018, 45, 49-58.	2.2	30
40	Wettability Study on Natural Rubber Surfaces for Applications as Biomembranes. ACS Biomaterials Science and Engineering, 2018, 4, 2784-2793.	5.2	17
41	Emission ellipsometry as a tool for luminescent liquid crystal phase transition identification. Physical Review E, 2018, 98, 022702.	2.1	4
42	Lateral Flow Assay for Interleukin 6: A Technological and Scientific Prospection of a 10-Year Survey. Recent Patents on Biotechnology, 2018, 12, 221-228.	0.8	2
43	Photocurrent response enhanced by spin-orbit coupling on ruthenium(II) complexes with heavy atom ligands. Dyes and Pigments, 2017, 140, 346-353.	3.7	6
44	Thiophene-based bent-shaped luminescent liquid crystals: synthesis and characterisation. Liquid Crystals, 2017, 44, 1231-1239.	2.2	19
45	Columnar bent-core liquid crystals with two oxadiazole units and two or four alkyl chains and their phase-dependent fluorescence. New Journal of Chemistry, 2017, 41, 11766-11777.	2.8	12
46	mesomorphic and fluorescent properties. Liquid Crystals, 2017, 44, 628-642.	2.2	6
47	Characterization of liquid crystalline phthalocyanines for OFET applications. Molecular Crystals and Liquid Crystals, 2017, 657, 81-88.	0.9	5
48	Achromatic Ellipsometry: Theory and Applications. , 2017, , .		3
49	Stability of ZnO quantum dots tuned by controlled addition of ethylene glycol during their growth. Materials Research Express, 2016, 3, 075018.	1.6	10
50	Triplet exciplex electroluminescence from two columnar liquid crystal perylene derivatives. Journal of Luminescence, 2016, 180, 31-37.	3.1	14
51	New liquid crystals derived from thiophene connected to the 1,2,4-oxadiazole heterocycle. Liquid Crystals, 2016, 43, 1768-1777.	2.2	27
52	Vulcanization, centrifugation, water-washing, and polymeric covering processes to optimize natural rubber membranes applied to microfluidic devices. Journal of Materials Science, 2016, 51, 3003-3012.	3.7	5
53	Mesomorphic and fluorescence properties of methyl 4-(4-alkoxystyryl)benzoates. Liquid Crystals, 2016, 43, 863-873.	2.2	10
54	Implications of flexible spacer rotational processes on the liquid crystal behavior of 4,5-dihydroisoxazole benzoate dimers. New Journal of Chemistry, 2016, 40, 393-401.	2.8	7

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55	Nonlinear optical properties of dye-doped E7 liquid crystals at the nematicâ€“isotropic transition. Liquid Crystals, 2016, 43, 268-275.	2.2	5
56	High rectification in organic diodes based on liquid crystalline phthalocyanines. Physical Chemistry Chemical Physics, 2015, 17, 32390-32397.	2.8	9
57	The effect of spinâ€“orbit coupling on selenadiazolo- and thiadiazolo- fused 1,10-phenanthrolines. Dyes and Pigments, 2015, 117, 149-156.	3.7	10
58	Light polarization states of a cholesteric liquid crystal probed with optical ellipsometry. Optical Materials, 2015, 48, 7-11.	3.6	9
59	Thermal Evaporation versus Spin-Coating: Electrical Performance in Columnar Liquid Crystal OLEDs. ACS Applied Materials & Interfaces, 2015, 7, 16374-16381.	8.0	68
60	Synthesis of Functionalized Organoselenium Materials: Selenides and Diselenides Containing Cholesterol. European Journal of Organic Chemistry, 2015, 2015, 3470-3476.	2.4	39
61	New liquid crystals derived from thiophene connected to the 1,2,3-triazole heterocycle. Liquid Crystals, 2015, 42, 1798-1807.	2.2	20
62	Lab-in-a-syringe using gold nanoparticles for rapid immunosensing of protein biomarkers. Lab on A Chip, 2015, 15, 399-405.	6.0	48
63	Nanostructured layer-by-layer films containing phaeophytin-b: Electrochemical characterization for sensing purposes. Materials Science and Engineering C, 2015, 47, 339-344.	7.3	1
64	Side-Chain Liquid-Crystalline Polymer Tetrazoles: Synthesis and Characterization. Journal of the Brazilian Chemical Society, 2014, , .	0.6	1
65	Luminescent columnar liquid crystals based on 1,3,4-oxadiazole. Tetrahedron, 2014, 70, 3355-3360.	1.9	39
66	Emission ellipsometry used to probe aggregation of the luminescent 2,1,3-benzothiadiazole dyes and ordering in an E7 liquid crystal matrix. Physical Chemistry Chemical Physics, 2014, 16, 2892.	2.8	14
67	Production and characterization of natural rubberâ€“Ca/P blends for biomedical purposes. Materials Science and Engineering C, 2014, 39, 29-34.	7.3	25
68	Development and characterization of multilayer films of polyaniline, titanium dioxide and CTAB for potential antimicrobial applications. Materials Science and Engineering C, 2014, 35, 449-454.	7.3	19
69	Characterization of natural rubber membranes using scaling laws analysis. European Polymer Journal, 2014, 50, 249-254.	5.4	10
70	Luminescent liquid crystals containing a sulphur-based heterocyclic core. Liquid Crystals, 2014, 41, 1097-1108.	2.2	49
71	Luminescent elastomeric Janus particles. Journal of Colloid and Interface Science, 2013, 410, 124-130.	9.4	1
72	Room temperature columnar liquid crystalline phases of luminescent non-symmetric star-shaped molecules containing two 1,3,4-oxadiazole units. Journal of Materials Chemistry C, 2013, 1, 8011.	5.5	42

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73	Synthesis and characterization of some novel tetrazole liquid crystals. Journal of Materials Chemistry C, 2013, 1, 5583.	5.5	23
74	Order Induced Charge Carrier Mobility Enhancement in Columnar Liquid Crystal Diodes. ACS Applied Materials & Interfaces, 2013, 5, 11935-11943.	8.0	92
75	Inverse relaxation effect of azo-dye molecules: The role of the film anisotropy. Chemical Physics Letters, 2013, 588, 150-154.	2.6	5
76	Synthetic pathway for a new series of liquid crystal 2,6-disubstituted imidazo[2,1-b][1,3,4]thiadiazole. Liquid Crystals, 2013, 40, 570-580.	2.2	11
77	Degradation of Methyl Paraoxon in the Presence of Mg²⁺-Al³⁺ Mixed Oxides. Journal of Physical Chemistry C, 2013, 117, 26097-26105.	3.1	25
78	Visible transmission windows in infrared hollow-core photonic bandgap fiber: characterization and response to pressure. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 977.	2.1	5
79	Enhancement of the Nonlinear Optical Absorption of the E7 Liquid Crystal at the Nematicâ€“Isotropic Transition. Brazilian Journal of Physics, 2012, 42, 355-359.	1.4	1
80	Layer-by-Layer Assembled Films Composed of â€œCharge Matchedâ€•and â€œLength Matchedâ€•Polysaccharides: Self-Patterning and Unexpected Effects of the Degree of Polymerization. Biointerphases, 2012, 7, 64.	1.6	11
81	The 2:1 cycloadducts from [3 + 2] 1,3-dipolar cycloaddition of nitrile oxide and vinylacetic acid. Synthesis and liquid crystal behaviour. Liquid Crystals, 2012, 39, 175-184.	2.2	3
82	An Isoniazid Analogue Promotes Mycobacterium tuberculosis-Nanoparticle Interactions and Enhances Bacterial Killing by Macrophages. Antimicrobial Agents and Chemotherapy, 2012, 56, 2259-2267.	3.2	52
83	New Columnar Zn-Phthalocyanine Designed for Electronic Applications. Journal of Physical Chemistry B, 2012, 116, 13554-13560.	2.6	23
84	Self-assembled azo-dye film as an efficient liquid crystal aligning layer. Liquid Crystals, 2012, 39, 205-210.	2.2	17
85	SÃntese e caracterizaÃ§Ã£o de copolÃmeros de cadeia lateral derivados de acrilatos de 4,5-di-hidroisoxazol e do (-)-mentol. Quimica Nova, 2012, 35, 1527-1533.	0.3	3
86	Synthesis and thermal behavior of new liquid crystals arylaldoxime esters. Journal of the Brazilian Chemical Society, 2012, 23, 880-888.	0.6	7
87	Tricritical-like behavior of the nonlinear optical refraction at the nematic-isotropic transition in the E7 thermotropic liquid crystal. European Physical Journal E, 2012, 35, 4.	1.6	11
88	New Luminescent Liquid Crystals Based on 2,1,3-Benzothiadiazole and Bent Five-memberedN-Heterocyclic Cores. Liquid Crystals, 2012, 39, 1099-1111.	2.2	70
89	Luminescent Columnar Liquid Crystals Based on Tristriazolotriazine. Langmuir, 2012, 28, 11590-11598.	3.5	61
90	Investigation of the energy transfer mechanism in OLEDs based on a new terbium Î²-diketonate complex. Organic Electronics, 2012, 13, 90-97.	2.6	34

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109	Phenomenological analysis of the light intensity dependence of the photoalignment process in azo-containing polymeric films. Physical Review E, 2006, 74, 011802.	2.1	8
110	Cristais lÃquidos: um sistema complexo de simples aplicaÃ§Ã£o. Revista Brasileira De Ensino De Fisica, 2005, 27, 333-342.	0.2	6
111	Effect of microtextured substrates on the molecular orientation of a nematic liquid-crystal sample. Physical Review E, 2005, 72, 031710.	2.1	9
112	Liquid-Crystal Alignment on Anisotropic Homeotropic-Planar Patterned Substrates. Molecular Crystals and Liquid Crystals, 2005, 442, 41-49.	0.9	11
113	Liquid crystal alignment on isotropic submicroâ€textured surfaces of homeotropicâ€planar states. Liquid Crystals, 2005, 32, 343-347.	2.2	7
114	Comportamento caÃ³tico em um circuito RLC nÃ£o-linear. Revista Brasileira De Ensino De Fisica, 2005, 27, 225-230.	0.2	0
115	BirrefringÃªncia em placas de onda e atividade Ã³ptica de uma soluÃ§Ã£o de aÃ§Ãºcar. Revista Brasileira De Ensino De Fisica, 2005, 27, 349-355.	0.2	0
116	Surface-induced orientational phase transition in a lyotropic liquid crystal observed by nonlinear optical techniques. Physical Review E, 2004, 69, 061707.	2.1	5
117	Processamento de imagens: conceitos bÃ¡sicos relacionados com o fenÃ´meno de difraÃ§Ã£o e uso de um computador Ã³ptico. Revista Brasileira De Ensino De Fisica, 2004, 26, .	0.0	0
118	Rubbing-induced charge domains observed by electrostatic force microscopy: effect on liquid crystal alignment. Liquid Crystals, 2003, 30, 591-598.	2.2	30
119	Dynamical behavior of a nematic lyotropic liquid crystal in flat confined samples. Physical Review E, 2001, 65, 011704.	2.1	6
120	Alignment and phase transition induced by surface action in lyotropic nematic liquid crystals. Physical Review E, 2000, 62, 3775-3779.	2.1	12
121	Advanced image characterization in scanning probe microscopy. , 0, , .		0
122	Tiliroside-Based Nanostructured Layer-by-Layer Films for Sensing Applications. Brazilian Journal of Physics, 0, , 1.	1.4	0
123	Pontos quÃ¢nticos ambientalmente amigÃ¡veis: destaque para o Ã³xido de zinco. Quimica Nova, 0, , .	0.3	2