

Chris E Finlayson

List of Publications by Year in descending order

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53
papers

1,783
citations

279798

23
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265206

42
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53
all docs

53
docs citations

53
times ranked

2277
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic Ellipsometry and Optical Modelling of Structurally Colored Opaline Thin-Films. Applied Sciences (Switzerland), 2022, 12, 4888.	2.5	3
2	Transparent Polymer Opal Thin Films with Intense UV Structural Color. Molecules, 2022, 27, 3774.	3.8	2
3	An Experimental and Theoretical Determination of Oscillatory Shear-Induced Crystallization Processes in Viscoelastic Photonic Crystal Media. Materials, 2021, 14, 5298.	2.9	5
4	Chromaticity of structural color in polymer thin film photonic crystals. Optics Express, 2020, 28, 36219.	3.4	10
5	Quantifying the saturation of structural colour from thin film polymeric photonic crystals. , 2020, , .		4
6	Solvatochromism based on structural color: Smart polymer composites for sensing and security. Materials and Design, 2018, 160, 417-426.	7.0	18
7	Spray-coating deposition techniques for polymeric semiconductor blends. Materials Science in Semiconductor Processing, 2017, 71, 174-180.	4.0	12
8	Solvatochromism in perylene diimides; experiment and theory. Physical Chemistry Chemical Physics, 2017, 19, 31781-31787.	2.8	6
9	Generating Bulk-Scale Ordered Optical Materials Using Shear-Assembly in Viscoelastic Media. Materials, 2017, 10, 688.	2.9	30
10	Large-scale ordering of nanoparticles using viscoelastic shear processing. Nature Communications, 2016, 7, 11661.	12.8	123
11	Nanoassembly of Polydisperse Photonic Crystals Based on Binary and Ternary Polymer Opal Alloys. Advanced Optical Materials, 2016, 4, 1494-1500.	7.3	27
12	Low cost 3D-printing used in an undergraduate project: an integrating sphere for measurement of photoluminescence quantum yield. European Journal of Physics, 2016, 37, 055501.	0.6	6
13	Real-time measurements of crystallization processes in viscoelastic polymeric photonic crystals. Physical Review E, 2015, 92, 052315.	2.1	8
14	The Potential of P3HT:3C-SiC Composite Structures for Hybrid Photovoltaics. Nanoscience and Nanotechnology Letters, 2015, 7, 56-61.	0.4	2
15	Thick polymer light-emitting diodes with very high power efficiency using Ohmic charge-injection layers. Semiconductor Science and Technology, 2014, 29, 025005.	2.0	9
16	A study of tin oxide as an electron injection layer in hybrid polymer light-emitting diodes. Semiconductor Science and Technology, 2014, 29, 125002.	2.0	8
17	Characterization of spray-coating methods for conjugated polymer blend thin films. Journal of Materials Science, 2014, 49, 4279-4287.	3.7	14
18	Polymer opals as novel photonic materials. Polymer International, 2013, 62, 1403-1407.	3.1	40

#	ARTICLE	IF	CITATIONS
19	The Influence of Side-Chain Position on the Optoelectronic Properties of a Red-Emitting Conjugated Polymer. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 967-974.	2.2	23
20	Generating Lithographically-Defined Tunable Printed Structural Color. <i>Advanced Engineering Materials</i> , 2013, 15, 948-953.	3.5	9
21	Electrically conductive polymeric photonic crystals. <i>Soft Matter</i> , 2012, 8, 6280.	2.7	19
22	Anisotropic Resonant Scattering from Polymer Photonic Crystals. <i>Advanced Materials</i> , 2012, 24, OP305-8.	21.0	14
23	Modification of the refractive-index contrast in polymer opal films. <i>Journal of Materials Chemistry</i> , 2011, 21, 8893.	6.7	41
24	Electrically Induced Colloidal Clusters for Generating Shear Mixing and Visualizing Flow in Microchannels. <i>Langmuir</i> , 2011, 27, 12815-12821.	3.5	2
25	Sequential Energy and Electron Transfer in Polyisocyanopeptide-Based Multichromophoric Arrays. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1590-1600.	2.6	16
26	Ordering in stretch-tunable polymeric opal fibers. <i>Optics Express</i> , 2011, 19, 3144.	3.4	73
27	The influence of the compounding process and testing conditions on the compressive mechanical properties of poly(D,L-lactide-co-glycolide)/tricalcium phosphate nanocomposites. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 1081-1089.	3.1	18
28	A comparative study of the thermal and dynamic mechanical behaviour of quenched and annealed bioresorbable poly-L-lactide/±-tricalcium phosphate nanocomposites. <i>Acta Biomaterialia</i> , 2011, 7, 2176-2184.	8.3	34
29	3D Bulk Ordering in Macroscopic Solid Opaline Films by Edge-Induced Rotational Shearing. <i>Advanced Materials</i> , 2011, 23, 1540-1544.	21.0	93
30	The influence of hydroxyapatite (HA) microparticles (m) and nanoparticles (n) on the thermal and dynamic mechanical properties of poly-L-lactide. <i>Polymer</i> , 2011, 52, 2883-2890.	3.8	47
31	Interplay of index contrast with periodicity in polymer photonic crystals. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	24
32	Extruding Opals: Self-assembling Active Soft NanoPhotonics on the Kilometre Scale. , 2011, , .		0
33	Macromolecular Scaffolding: The Relationship Between Nanoscale Architecture and Function in Multichromophoric Arrays for Organic Electronics. <i>Advanced Materials</i> , 2010, 22, E81-8.	21.0	39
34	Multichromophoric Phthalocyanine- (Perylenediimide) ₈ Molecules: A Photophysical Study. <i>Chemistry - A European Journal</i> , 2010, 16, 10021-10029.	3.3	23
35	Inducing Symmetry Breaking in Nanostructures: Anisotropic Stretch-Tuning Photonic Crystals. <i>Physical Review Letters</i> , 2010, 105, 233909.	7.8	34
36	Photophysical studies of poly-isocyanopeptide based photovoltaic blends. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 095501.	2.8	4

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37	â€œHelterâ€kelterâ€Likeâ€Perylene Polyisocyanopeptides. Chemistry - A European Journal, 2009, 15, 2536-2547.	3.3	64
38	The Relationship between Nanoscale Architecture and Charge Transport in Conjugated Nanocrystals Bridged by Multichromophoric Polymers. Journal of the American Chemical Society, 2009, 131, 7055-7063.	13.7	52
39	Improved Performance of Perylene-Based Photovoltaic Cells Using Polyisocyanopeptide Arrays. Macromolecules, 2009, 42, 2023-2030.	4.8	78
40	Electronic Transport Properties of Ensembles of Peryleneâ€Substituted Polyâ€isocyanopeptide Arrays. Advanced Functional Materials, 2008, 18, 3947-3955.	14.9	70
41	Investigation into the Phosphorescence of a Series of Regioisomeric Iridium(III) Complexes. Organometallics, 2008, 27, 2980-2989.	2.3	38
42	Modification of Fluorophore Photophysics through Peptide-Driven Self-Assembly. Journal of the American Chemical Society, 2008, 130, 5487-5491.	13.7	72
43	Electrical and Raman characterization of silicon and germanium-filled microstructured optical fibers. Applied Physics Letters, 2007, 90, 132110.	3.3	46
44	Integrated optoelectronics in an optical fiber. , 2007, , .		1
45	Electronic and Plasmonic Materials Inside Microstructured Optical Fibers. , 2007, , .		0
46	Microstructured Optical Fibers as High-Pressure Microfluidic Reactors. Science, 2006, 311, 1583-1586.	12.6	442
47	Surface Enhanced Raman Scattering using Metal Modified Microstructured Optical Fibre Substrates. , 2006, , .		2
48	Surface enhanced Raman scattering using metal modified microstructured optical fiber substrates. , 2006, , .		2
49	Slow light and chromatic temporal dispersion in photonic crystal waveguides using femtosecond time of flight. Physical Review E, 2006, 73, 016619.	2.1	10
50	High pressure CVD inside microstructured optical fibres. , 2006, , .		2
51	Infrared emitting PbSe nanocrystals for telecommunications window applications. Journal of Modern Optics, 2005, 52, 955-964.	1.3	36
52	Photonic bandgaps in patterned waveguides of silicon-rich silicon dioxide. Applied Physics Letters, 2004, 84, 2415-2417.	3.3	10
53	Ultrabroadband transmission measurements on waveguides of silicon-rich silicon dioxide. Applied Physics Letters, 2003, 83, 4598-4600.	3.3	18