

Chris E Finlayson

List of Publications by Year in descending order

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53
papers

1,783
citations

279798

23
h-index

265206

42
g-index

53
all docs

53
docs citations

53
times ranked

2277
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructured Optical Fibers as High-Pressure Microfluidic Reactors. <i>Science</i> , 2006, 311, 1583-1586.	12.6	442
2	Large-scale ordering of nanoparticles using viscoelastic shear processing. <i>Nature Communications</i> , 2016, 7, 11661.	12.8	123
3	3D Bulk Ordering in Macroscopic Solid Opaline Films by Edge-Induced Rotational Shearing. <i>Advanced Materials</i> , 2011, 23, 1540-1544.	21.0	93
4	Improved Performance of Perylene-Based Photovoltaic Cells Using Polyisocyanopeptide Arrays. <i>Macromolecules</i> , 2009, 42, 2023-2030.	4.8	78
5	Ordering in stretch-tunable polymeric opal fibers. <i>Optics Express</i> , 2011, 19, 3144.	3.4	73
6	Modification of Fluorophore Photophysics through Peptide-Driven Self-Assembly. <i>Journal of the American Chemical Society</i> , 2008, 130, 5487-5491.	13.7	72
7	Electronic Transport Properties of Ensembles of Perylene-Substituted Polyisocyanopeptide Arrays. <i>Advanced Functional Materials</i> , 2008, 18, 3947-3955.	14.9	70
8	Helter-Like Perylene Polyisocyanopeptides. <i>Chemistry - A European Journal</i> , 2009, 15, 2536-2547.	3.3	64
9	The Relationship between Nanoscale Architecture and Charge Transport in Conjugated Nanocrystals Bridged by Multichromophoric Polymers. <i>Journal of the American Chemical Society</i> , 2009, 131, 7055-7063.	13.7	52
10	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
11	Electrical and Raman characterization of silicon and germanium-filled microstructured optical fibers. <i>Applied Physics Letters</i> , 2007, 90, 132110.	3.3	46
12	Modification of the refractive-index contrast in polymer opal films. <i>Journal of Materials Chemistry</i> , 2011, 21, 8893.	6.7	41
13	Polymer opals as novel photonic materials. <i>Polymer International</i> , 2013, 62, 1403-1407.	3.1	40
14	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
15	Investigation into the Phosphorescence of a Series of Regioisomeric Iridium(III) Complexes. <i>Organometallics</i> , 2008, 27, 2980-2989.	2.3	38
16	Infrared emitting PbSe nanocrystals for telecommunications window applications. <i>Journal of Modern Optics</i> , 2005, 52, 955-964.	1.3	36
17	Inducing Symmetry Breaking in Nanostructures: Anisotropic Stretch-Tuning Photonic Crystals. <i>Physical Review Letters</i> , 2010, 105, 233909.	7.8	34
18	A comparative study of the thermal and dynamic mechanical behaviour of quenched and annealed bioresorbable poly-l-lactide/ β -tricalcium phosphate nanocomposites. <i>Acta Biomaterialia</i> , 2011, 7, 2176-2184.	8.3	34

#	ARTICLE	IF	CITATIONS
19	Generating Bulk-Scale Ordered Optical Materials Using Shear-Assembly in Viscoelastic Media. <i>Materials</i> , 2017, 10, 688.	2.9	30
20	Nanoassembly of Polydisperse Photonic Crystals Based on Binary and Ternary Polymer Opal Alloys. <i>Advanced Optical Materials</i> , 2016, 4, 1494-1500.	7.3	27
21	Interplay of index contrast with periodicity in polymer photonic crystals. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	24
22	Multichromophoric Phthalocyanine ⁸ (Perylenediimide) ₈ Molecules: A Photophysical Study. <i>Chemistry - A European Journal</i> , 2010, 16, 10021-10029.	3.3	23
23	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
24	Electrically conductive polymeric photonic crystals. <i>Soft Matter</i> , 2012, 8, 6280.	2.7	19
25	Ultrabroadband transmission measurements on waveguides of silicon-rich silicon dioxide. <i>Applied Physics Letters</i> , 2003, 83, 4598-4600.	3.3	18
26	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
27	Solvatochromism based on structural color: Smart polymer composites for sensing and security. <i>Materials and Design</i> , 2018, 160, 417-426.	7.0	18
28	Sequential Energy and Electron Transfer in Polyisocyanopeptide-Based Multichromophoric Arrays. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1590-1600.	2.6	16
29	Anisotropic Resonant Scattering from Polymer Photonic Crystals. <i>Advanced Materials</i> , 2012, 24, OP305-8.	21.0	14
30	Characterization of spray-coating methods for conjugated polymer blend thin films. <i>Journal of Materials Science</i> , 2014, 49, 4279-4287.	3.7	14
31	Spray-coating deposition techniques for polymeric semiconductor blends. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 174-180.	4.0	12
32	Photonic bandgaps in patterned waveguides of silicon-rich silicon dioxide. <i>Applied Physics Letters</i> , 2004, 84, 2415-2417.	3.3	10
33	Slow light and chromatic temporal dispersion in photonic crystal waveguides using femtosecond time of flight. <i>Physical Review E</i> , 2006, 73, 016619.	2.1	10
34	Chromaticity of structural color in polymer thin film photonic crystals. <i>Optics Express</i> , 2020, 28, 36219.	3.4	10
35	Generating Lithographically-Defined Tunable Printed Structural Color. <i>Advanced Engineering Materials</i> , 2013, 15, 948-953.	3.5	9
36	Thick polymer light-emitting diodes with very high power efficiency using Ohmic charge-injection layers. <i>Semiconductor Science and Technology</i> , 2014, 29, 025005.	2.0	9

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37	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
38	Real-time measurements of crystallization processes in viscoelastic polymeric photonic crystals. Physical Review E, 2015, 92, 052315.	2.1	8
39	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
40	Solvatochromism in perylene diimides; experiment and theory. Physical Chemistry Chemical Physics, 2017, 19, 31781-31787.	2.8	6
41	An Experimental and Theoretical Determination of Oscillatory Shear-Induced Crystallization Processes in Viscoelastic Photonic Crystal Media. Materials, 2021, 14, 5298.	2.9	5
42	Photophysical studies of poly-isocyanopeptide based photovoltaic blends. Journal Physics D: Applied Physics, 2010, 43, 095501.	2.8	4
43	Quantifying the saturation of structural colour from thin film polymeric photonic crystals. , 2020, , .		4
44	Spectroscopic Ellipsometry and Optical Modelling of Structurally Colored Opaline Thin-Films. Applied Sciences (Switzerland), 2022, 12, 4888.	2.5	3
45	Surface Enhanced Raman Scattering using Metal Modified Microstructured Optical Fibre Substrates. , 2006, , .		2
46	Surface enhanced Raman scattering using metal modified microstructured optical fiber substrates. , 2006, , .		2
47	High pressure CVD inside microstructured optical fibres. , 2006, , .		2
48	Electrically Induced Colloidal Clusters for Generating Shear Mixing and Visualizing Flow in Microchannels. Langmuir, 2011, 27, 12815-12821.	3.5	2
49	The Potential of P3HT:3C-SiC Composite Structures for Hybrid Photovoltaics. Nanoscience and Nanotechnology Letters, 2015, 7, 56-61.	0.4	2
50	Transparent Polymer Opal Thin Films with Intense UV Structural Color. Molecules, 2022, 27, 3774.	3.8	2
51	Integrated optoelectronics in an optical fiber. , 2007, , .		1
52	Electronic and Plasmonic Materials Inside Microstructured Optical Fibers. , 2007, , .		0
53	Extruding Opals: Self-assembling Active Soft NanoPhotonics on the Kilometre Scale. , 2011, , .		0