

Richard M Parker

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,261
citations

236833

25
h-index

302012

39
g-index

50
all docs

50
docs citations

50
times ranked

2631
citing authors

#	ARTICLE	IF	CITATIONS
1	The Self-Assembly of Cellulose Nanocrystals: Hierarchical Design of Visual Appearance. <i>Advanced Materials</i> , 2018, 30, e1704477.	11.1	363
2	Cucurbit[8]uril-Based Microcapsules Self-Assembled within Microfluidic Droplets: A Versatile Approach for Supramolecular Architectures and Materials. <i>Accounts of Chemical Research</i> , 2017, 50, 208-217.	7.6	181
3	Hierarchical Self-Assembly of Cellulose Nanocrystals in a Confined Geometry. <i>ACS Nano</i> , 2016, 10, 8443-8449.	7.3	161
4	Differentially Addressable Cavities within Metal-Organic Cage-Cross-Linked Polymeric Hydrogels. <i>Journal of the American Chemical Society</i> , 2015, 137, 9722-9729.	6.6	148
5	Large-scale fabrication of structurally coloured cellulose nanocrystal films and effect pigments. <i>Nature Materials</i> , 2022, 21, 352-358.	13.3	129
6	Hierarchical Photonic Pigments via the Confined Self-Assembly of Bottlebrush Block Copolymers. <i>ACS Nano</i> , 2019, 13, 1764-1771.	7.3	107
7	Interfacial assembly of dendritic microcapsules with host-guest chemistry. <i>Nature Communications</i> , 2014, 5, 5772.	5.8	101
8	Printing of Responsive Photonic Cellulose Nanocrystal Microfilm Arrays. <i>Advanced Functional Materials</i> , 2019, 29, 1804531.	7.8	87
9	Supramolecular hydrogel microcapsules via cucurbit[8]uril host-guest interactions with triggered and UV-controlled molecular permeability. <i>Chemical Science</i> , 2015, 6, 4929-4933.	3.7	77
10	Angular-Independent Photonic Pigments via the Controlled Micellization of Amphiphilic Bottlebrush Block Copolymers. <i>Advanced Materials</i> , 2020, 32, e2002681.	11.1	73
11	Visual Appearance of Chiral Nematic Cellulose-Based Photonic Films: Angular and Polarization Independent Color Response with a Twist. <i>Advanced Materials</i> , 2019, 31, e1905151.	11.1	67
12	Chiral self-assembly of cellulose nanocrystals is driven by crystallite bundles. <i>Nature Communications</i> , 2022, 13, 2657.	5.8	60
13	Recent Advances in Block Copolymer Self-Assembly for the Fabrication of Photonic Films and Pigments. <i>Advanced Optical Materials</i> , 2021, 9, 2100519.	3.6	54
14	Mechanochromic, Structurally Colored, and Edible Hydrogels Prepared from Hydroxypropyl Cellulose and Gelatin. <i>Advanced Materials</i> , 2021, 33, e2102112.	11.1	50
15	Structurally Colored Radiative Cooling Cellulosic Films. <i>Advanced Science</i> , 2022, 9, .	5.6	49
16	Controlling the Self-Assembly Behavior of Aqueous Chitin Nanocrystal Suspensions. <i>Biomacromolecules</i> , 2019, 20, 2830-2838.	2.6	48
17	Supramolecular colloidosomes: fabrication, characterisation and triggered release of cargo. <i>Chemical Communications</i> , 2014, 50, 7048-7051.	2.2	45
18	Electrostatically Directed Self-Assembly of Ultrathin Supramolecular Polymer Microcapsules. <i>Advanced Functional Materials</i> , 2015, 25, 4091-4100.	7.8	44

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19	Using the photoinduced reversible refractive-index change of an azobenzene co-polymer to reconfigure an optical Bragg grating. <i>Journal of Materials Chemistry</i> , 2010, 20, 9118.	6.7	38
20	3D Printing of Liquid Crystalline Hydroxypropyl Cellulose toward Tunable and Sustainable Volumetric Photonic Structures. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	38
21	Cellulose photonic pigments. <i>Nature Communications</i> , 2022, 13, .	5.8	38
22	Aqueous interfacial gels assembled from small molecule supramolecular polymers. <i>Chemical Science</i> , 2017, 8, 1350-1355.	3.7	35
23	Formation of Cucurbit[8]uril-Based Supramolecular Hydrogel Beads Using Droplet-Based Microfluidics. <i>Biomacromolecules</i> , 2015, 16, 2743-2749.	2.6	34
24	Microfluidic Droplet-Facilitated Hierarchical Assembly for Dual Cargo Loading and Synergistic Delivery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8811-8820.	4.0	33
25	Direct UV-written planar Bragg grating sensors. <i>Measurement Science and Technology</i> , 2015, 26, 112001.	1.4	29
26	Dual-responsive supramolecular colloidal microcapsules from cucurbit[8]uril molecular recognition in microfluidic droplets. <i>Polymer Chemistry</i> , 2016, 7, 5996-6002.	1.9	22
27	An investigation into relative humidity measurement using an aluminosilicate sol-gel thin film as the active layer in an integrated optical Bragg grating refractometer. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 857-866.	4.0	20
28	Revealing the Structural Coloration of Self-Assembled Chitin Nanocrystal Films. <i>Advanced Materials</i> , 2022, 34, .	11.1	19
29	Microcapsule Buckling Triggered by Compression-Induced Interfacial Phase Change. <i>Langmuir</i> , 2016, 32, 10987-10994.	1.6	16
30	In vacuo measurement of the sensitivity limit of planar Bragg grating sensors for monolayer detection. <i>Applied Physics Letters</i> , 2009, 95, 173306.	1.5	15
31	An investigation into dispersion upon switching between solvents within a microfluidic system using a chemically resistant integrated optical refractive index sensor. <i>Lab on A Chip</i> , 2013, 13, 377-385.	3.1	14
32	An integrated optical Bragg grating refractometer for volatile organic compound detection. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 595-604.	4.0	13
33	A temperature-insensitive Bragg grating sensor Using orthogonal polarisation modes for in situ temperature compensation. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 428-432.	4.0	10
34	The Limited Palette for Photonic Block-Copolymer Materials: A Historical Problem or a Practical Limitation?. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202117275.	7.2	10
35	Supracolloidal Architectures Self-Assembled in Microdroplets. <i>Chemistry - A European Journal</i> , 2015, 21, 15516-15519.	1.7	9
36	Deconvoluting the Optical Response of Biocompatible Photonic Pigments. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	7

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37	Monolayer detection of ion binding at a crown ether-functionalised supramolecular surface via an integrated optical Bragg grating. <i>Analyst, The</i> , 2014, 139, 2774-2782.	1.7	4
38	Tracking a photo-switchable surface-localised supramolecular interaction via refractive index. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1178-1185.	2.7	4
39	The Limited Palette for Photonic Block-Copolymer Materials: A Historical Problem or a Practical Limitation?. <i>Angewandte Chemie</i> , 0, , .	1.6	4
40	An integrated bragg grating oxygen sensor using a hydrophobic sol-gel layer doped with an organic dye. , 2011, , .		2
41	A Bragg grating sensor for detection of monolayers at a surface. , 2009, , .		1
42	Athermal planar Bragg grating device for integrated photonic networks. <i>Electronics Letters</i> , 2010, 46, 358.	0.5	1
43	An Integrated Optofluidic Bragg Grating Device to Measure the Dynamic Composition of a Fluid System. , 2010, , .		1
44	In vacuo measurement of the sensitivity limit of planar Bragg sensors. , 2009, , .		0
45	Integrated Temperature Compensated Bragg Grating Refractometer "Benefiting from Birefringence. , 2010, , .		0
46	Optofluidic integrated bragg grating chemical sensor: Utilising a sodium-selective receptor surface to enhance detection. , 2011, , .		0
47	UV written integrated Bragg grating sensors. , 2015, , .		0
48	Optofluidic Bragg Grating Sensor for Monolayer Detection. , 2009, , .		0
49	Direct UV Written Planar Bragg Gratings Integrated to Achieve Localised Multi-Parameter Sensing. , 2010, , .		0
50	Deconvoluting the Optical Response of Biocompatible Photonic Pigments. <i>Angewandte Chemie</i> , 0, , .	1.6	0