Richard M Parker

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

37 papers	1,354 citations	18 h-index	36 g-index
50 ext. papers	1,767 ext. citations	12.1 avg, IF	4.71 L-index

#	Paper	IF	Citations
37	The Self-Assembly of Cellulose Nanocrystals: Hierarchical Design of Visual Appearance. *Advanced Materials*, **2018**, 30, e1704477	24	240
36	Cucurbit[n]uril-Based Microcapsules Self-Assembled within Microfluidic Droplets: A Versatile Approach for Supramolecular Architectures and Materials. *Accounts of Chemical Research*, **2017**, 50, 208-217	24.3	143
35	Hierarchical Self-Assembly of Cellulose Nanocrystals in a Confined Geometry. *ACS Nano*, **2016**, 10, 8443-9	16.7	122
34	Differentially Addressable Cavities within Metal-Organic Cage-Cross-Linked Polymeric Hydrogels. *Journal of the American Chemical Society*, **2015**, 137, 9722-9	16.4	118
33	Hierarchical Photonic Pigments via the Confined Self-Assembly of Bottlebrush Block Copolymers. *ACS Nano*, **2019**, 13, 1764-1771	16.7	71
32	Interfacial assembly of dendritic microcapsules with host-guest chemistry. *Nature Communications*, **2014**, 5, 5772	17.4	69
31	Printing of Responsive Photonic Cellulose Nanocrystal Microfilm Arrays. *Advanced Functional Materials*, **2019**, 29, 1804531	15.6	66
30	Supramolecular hydrogel microcapsules cucurbit[8]uril host-guest interactions with triggered and UV-controlled molecular permeability. *Chemical Science*, **2015**, 6, 4929-4933	9.4	65
29	Supramolecular colloidosomes: fabrication, characterisation and triggered release of cargo. *Chemical Communications*, **2014**, 50, 7048-51	5.8	39
28	Angular-Independent Photonic Pigments via the Controlled Micellization of Amphiphilic Bottlebrush Block Copolymers. *Advanced Materials*, **2020**, 32, e2002681	24	36
27	Electrostatically Directed Self-Assembly of Ultrathin Supramolecular Polymer Microcapsules. *Advanced Functional Materials*, **2015**, 25, 4091-4100	15.6	32
26	Using the photoinduced reversible refractive-index change of an azobenzene co-polymer to reconfigure an optical Bragg grating. *Journal of Materials Chemistry*, **2010**, 20, 9118		31
25	Visual Appearance of Chiral Nematic Cellulose-Based Photonic Films: Angular and Polarization Independent Color Response with a Twist. *Advanced Materials*, **2019**, 31, e1905151	24	30
24	Formation of Cucurbit[8]uril-Based Supramolecular Hydrogel Beads Using Droplet-Based Microfluidics. *Biomacromolecules*, **2015**, 16, 2743-9	6.9	29
23	Controlling the Self-Assembly Behavior of Aqueous Chitin Nanocrystal Suspensions. *Biomacromolecules*, **2019**, 20, 2830-2838	6.9	26
22	Aqueous interfacial gels assembled from small molecule supramolecular polymers. *Chemical Science*, **2017**, 8, 1350-1355	9.4	25
21	Microfluidic Droplet-Facilitated Hierarchical Assembly for Dual Cargo Loading and Synergistic Delivery. *ACS Applied Materials & Interfaces*, **2016**, 8, 8811-20	9.5	24

20	Large-scale fabrication of structurally coloured cellulose nanocrystal films and effect pigments. *Nature Materials*, **2021**,	27	23
19	An investigation into relative humidity measurement using an aluminosilicate sol–gel thin film as the active layer in an integrated optical Bragg grating refractometer. *Sensors and Actuators B: Chemical*, **2013**, 188, 857-866	8.5	18
18	Direct UV-written planar Bragg grating sensors. *Measurement Science and Technology*, **2015**, 26, 112001	2	17
17	Dual-responsive supramolecular colloidal microcapsules from cucurbit[8]uril molecular recognition in microfluidic droplets. *Polymer Chemistry*, **2016**, 7, 5996-6002	4.9	16
16	Microcapsule Buckling Triggered by Compression-Induced Interfacial Phase Change. *Langmuir*, **2016**, 32, 10987-10994	4	14
15	Recent Advances in Block Copolymer Self-Assembly for the Fabrication of Photonic Films and Pigments. *Advanced Optical Materials*,2100519	8.1	14
14	Mechanochromic, Structurally Colored, and Edible Hydrogels Prepared from Hydroxypropyl Cellulose and Gelatin. *Advanced Materials*, **2021**, 33, e2102112	24	12
13	In vacuo measurement of the sensitivity limit of planar Bragg grating sensors for monolayer detection. *Applied Physics Letters*, **2009**, 95, 173306	3.4	10
12	A temperature-insensitive Bragg grating sensor using orthogonal polarisation modes for in situ temperature compensation. *Sensors and Actuators B: Chemical*, **2010**, 145, 428-432	8.5	9
11	3D Printing of Liquid Crystalline Hydroxypropyl Cellulose Toward Tunable and Sustainable Volumetric Photonic Structures. *Advanced Functional Materials*,2108566	15.6	8
10	An integrated optical Bragg grating refractometer for volatile organic compound detection. *Sensors and Actuators B: Chemical*, **2016**, 232, 595-604	8.5	8
9	Supracolloidal Architectures Self-Assembled in Microdroplets. *Chemistry - A European Journal*, **2015**, 21, 15516-9	4.8	7
8	An investigation into dispersion upon switching between solvents within a microfluidic system using a chemically resistant integrated optical refractive index sensor. *Lab on A Chip*, **2013**, 13, 377-85	7.2	7
7	Chiral self-assembly of cellulose nanocrystals is driven by crystallite bundles.. *Nature Communications*, **2022**, 13, 2657	17.4	6
6	Monolayer detection of ion binding at a crown ether-functionalised supramolecular surface via an integrated optical Bragg grating. *Analyst, The*, **2014**, 139, 2774-82	5	4
5	Tracking a photo-switchable surface-localised supramolecular interaction via refractive index. *Journal of Materials Chemistry C*, **2016**, 4, 1178-1185	7.1	3
4	Revealing the Structural Coloration of Self-Assembled Chitin Nanocrystal Films. *Advanced Materials*,2203300	24	3
3	An integrated bragg grating oxygen sensor using a hydrophobic sol-gel layer doped with an organic dye **2011**,		1

2	The Limited Palette for Photonic Block-Copolymer Materials: A Historical Problem or a Practical Limitation?. *Angewandte Chemie - International Edition*, **2022**, e202117275	16.4	1
1	Athermal planar Bragg grating device for integrated photonic networks. *Electronics Letters*, **2010**, 46, 358	1.1	0