

# Richard M Parker

## List of Publications by Year in Descending Order

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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 Limited Palette for Photonic Block-Copolymer Materials: A Historical Problem or a Practical Limitation?. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> , e202117275	16.4	1
36	Chiral self-assembly of cellulose nanocrystals is driven by crystallite bundles.. <i>Nature Communications</i> , <b>2022</b> , 13, 2657	17.4	6
35	Large-scale fabrication of structurally coloured cellulose nanocrystal films and effect pigments. <i>Nature Materials</i> , <b>2021</b> ,	27	23
34	Mechanochromic, Structurally Colored, and Edible Hydrogels Prepared from Hydroxypropyl Cellulose and Gelatin. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102112	24	12
33	Angular-Independent Photonic Pigments via the Controlled Micellization of Amphiphilic Bottlebrush Block Copolymers. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002681	24	36
32	Controlling the Self-Assembly Behavior of Aqueous Chitin Nanocrystal Suspensions. <i>Biomacromolecules</i> , <b>2019</b> , 20, 2830-2838	6.9	26
31	Visual Appearance of Chiral Nematic Cellulose-Based Photonic Films: Angular and Polarization Independent Color Response with a Twist. <i>Advanced Materials</i> , <b>2019</b> , 31, e1905151	24	30
30	Hierarchical Photonic Pigments via the Confined Self-Assembly of Bottlebrush Block Copolymers. <i>ACS Nano</i> , <b>2019</b> , 13, 1764-1771	16.7	71
29	Printing of Responsive Photonic Cellulose Nanocrystal Microfilm Arrays. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1804531	15.6	66
28	The Self-Assembly of Cellulose Nanocrystals: Hierarchical Design of Visual Appearance. <i>Advanced Materials</i> , <b>2018</b> , 30, e1704477	24	240
27	Cucurbit[n]uril-Based Microcapsules Self-Assembled within Microfluidic Droplets: A Versatile Approach for Supramolecular Architectures and Materials. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 208-217	24.7	143
26	Aqueous interfacial gels assembled from small molecule supramolecular polymers. <i>Chemical Science</i> , <b>2017</b> , 8, 1350-1355	9.4	25
25	Hierarchical Self-Assembly of Cellulose Nanocrystals in a Confined Geometry. <i>ACS Nano</i> , <b>2016</b> , 10, 8443-867	26.7	122
24	Microcapsule Buckling Triggered by Compression-Induced Interfacial Phase Change. <i>Langmuir</i> , <b>2016</b> , 32, 10987-10994	4	14
23	Microfluidic Droplet-Facilitated Hierarchical Assembly for Dual Cargo Loading and Synergistic Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8811-20	9.5	24
22	Tracking a photo-switchable surface-localised supramolecular interaction via refractive index. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 1178-1185	7.1	3
21	An integrated optical Bragg grating refractometer for volatile organic compound detection. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 232, 595-604	8.5	8

20	Dual-responsive supramolecular colloidal microcapsules from cucurbit[8]uril molecular recognition in microfluidic droplets. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 5996-6002	4.9	16
19	Differentially Addressable Cavities within Metal-Organic Cage-Cross-Linked Polymeric Hydrogels. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 9722-9	16.4	118
18	Supramolecular hydrogel microcapsules cucurbit[8]uril host-guest interactions with triggered and UV-controlled molecular permeability. <i>Chemical Science</i> , <b>2015</b> , 6, 4929-4933	9.4	65
17	Formation of Cucurbit[8]uril-Based Supramolecular Hydrogel Beads Using Droplet-Based Microfluidics. <i>Biomacromolecules</i> , <b>2015</b> , 16, 2743-9	6.9	29
16	Direct UV-written planar Bragg grating sensors. <i>Measurement Science and Technology</i> , <b>2015</b> , 26, 112001 2		17
15	Supracolloidal Architectures Self-Assembled in Microdroplets. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 15516-9	4.8	7
14	Electrostatically Directed Self-Assembly of Ultrathin Supramolecular Polymer Microcapsules. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4091-4100	15.6	32
13	Monolayer detection of ion binding at a crown ether-functionalised supramolecular surface via an integrated optical Bragg grating. <i>Analyst, The</i> , <b>2014</b> , 139, 2774-82	5	4
12	Supramolecular colloidosomes: fabrication, characterisation and triggered release of cargo. <i>Chemical Communications</i> , <b>2014</b> , 50, 7048-51	5.8	39
11	Interfacial assembly of dendritic microcapsules with host-guest chemistry. <i>Nature Communications</i> , <b>2014</b> , 5, 5772	17.4	69
10	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> , <b>2013</b> , 188, 857-866	8.5	18
9	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> , <b>2013</b> , 13, 377-85	7.2	7
8	An integrated bragg grating oxygen sensor using a hydrophobic sol-gel layer doped with an organic dye <b>2011</b> ,		1
7	Athermal planar Bragg grating device for integrated photonic networks. <i>Electronics Letters</i> , <b>2010</b> , 46, 358	1.1	0
6	Using the photoinduced reversible refractive-index change of an azobenzene co-polymer to reconfigure an optical Bragg grating. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9118		31
5	A temperature-insensitive Bragg grating sensor using orthogonal polarisation modes for in situ temperature compensation. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 145, 428-432	8.5	9
4	In vacuo measurement of the sensitivity limit of planar Bragg grating sensors for monolayer detection. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 173306	3.4	10
3	3D Printing of Liquid Crystalline Hydroxypropyl Cellulose toward Tunable and Sustainable Volumetric Photonic Structures. <i>Advanced Functional Materials</i> , 2108566	15.6	8

- 2 Recent Advances in Block Copolymer Self-Assembly for the Fabrication of Photonic Films and Pigments. *Advanced Optical Materials*,2100519 8.1 14
- 1 Revealing the Structural Coloration of Self-Assembled Chitin Nanocrystal Films. *Advanced Materials*,2203300 3