

Steven Barrow

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

30
papers

3,691
citations

17
h-index

33
g-index

33
ext. papers

4,394
ext. citations

14.6
avg, IF

5.46
L-index

#	Paper	IF	Citations
30	Fluorine-Doped Tin Oxide Colloidal Nanocrystals. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
29	Cascaded nanooptics to probe microsecond atomic-scale phenomena. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14819-14826	11.5	13
28	Nanometer control in plasmonic systems through discrete layer-by-layer macrocycle-cation deposition. <i>Nanoscale</i> , 2020 , 12, 8706-8710	7.7	
27	Breaking plasmonic symmetry through the asymmetric growth of gold nanorods. <i>Optica</i> , 2020 , 7, 1666	8.6	3
26	Host-Guest Chemistry Meets Electrocatalysis: Cucurbit[6]uril on a Au Surface as a Hybrid System in CO Reduction. <i>ACS Catalysis</i> , 2020 , 10, 751-761	13.1	24
25	Flow-controlled synthesis of gold nanoparticles in a biphasic system with inline liquid-liquid separation. <i>Reaction Chemistry and Engineering</i> , 2020 , 5, 356-366	4.9	7
24	Self-Assembly of Plasmonic Near-Perfect Absorbers of Light: The Effect of Particle Size. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8378-8385	6.4	6
23	Continuous Growth Synthesis of Zinc Oxide Nanocrystals with Tunable Size and Doping. <i>Chemistry of Materials</i> , 2019 , 31, 9604-9613	9.6	10
22	Inhibiting Analyte Theft in Surface-Enhanced Raman Spectroscopy Substrates: Subnanomolar Quantitative Drug Detection. <i>ACS Sensors</i> , 2019 , 4, 2988-2996	9.2	15
21	Plasmon-induced optical control over dithionite-mediated chemical redox reactions. <i>Faraday Discussions</i> , 2019 , 214, 455-463	3.6	8
20	Preferential binding of unsaturated hydrocarbons in aryl-bisimidazolium-cucurbit[8]uril complexes furnishes evidence for small-molecule π -interactions. <i>Chemical Science</i> , 2019 , 10, 10240-10246	9.4	6
19	Coupled Plasmon Resonances and Gap Modes in Laterally Assembled Gold Nanorod Arrays. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1607-1617	3.1	4
18	Liquid metals: fundamentals and applications in chemistry. <i>Chemical Society Reviews</i> , 2018 , 47, 4073-4114	38.5	432
17	Controlling Spatiotemporal Mechanics of Supramolecular Hydrogel Networks with Highly Branched Cucurbit[8]uril Polyrotaxanes. <i>Advanced Functional Materials</i> , 2018 , 28, 1702994	15.6	41
16	Plasmonic tunnel junctions for single-molecule redox chemistry. <i>Nature Communications</i> , 2017 , 8, 994	17.4	81
15	Mapping SERS in CB:Au Plasmonic Nanoaggregates. <i>ACS Photonics</i> , 2017 , 4, 2681-2686	6.3	20
14	Cucurbit[7]uril as a Supramolecular Artificial Enzyme for Diels-Alder Reactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15688-15692	16.4	54

13	Cucurbit[7]uril as a Supramolecular Artificial Enzyme for Diels-Alder Reactions. <i>Angewandte Chemie</i> , 2017 , 129, 15894-15898	3.6	24
12	Smart supramolecular sensing with cucurbit[n]urils: probing hydrogen bonding with SERS. <i>Faraday Discussions</i> , 2017 , 205, 505-515	3.6	13
11	Single-molecule strong coupling at room temperature in plasmonic nanocavities. <i>Nature</i> , 2016 , 535, 127-304	30.4	1009
10	The Importance of Excess Poly(N-isopropylacrylamide) for the Aggregation of Poly(N-isopropylacrylamide)-Coated Gold Nanoparticles. <i>ACS Nano</i> , 2016 , 10, 3158-65	16.7	98
9	Hybrid organic/inorganic supramolecular hydrogel reinforced with CePO ₄ nanowires. <i>Polymer Chemistry</i> , 2016 , 7, 6485-6489	4.9	10
8	Electron Energy Loss Spectroscopy Investigation into Symmetry in Gold Trimer and Tetramer Plasmonic Nanoparticle Structures. <i>ACS Nano</i> , 2016 , 10, 8552-63	16.7	31
7	Cucurbituril-Based Molecular Recognition. <i>Chemical Reviews</i> , 2015 , 115, 12320-406	68.1	1115
6	Symmetry breaking and silver in gold nanorod growth. <i>ACS Nano</i> , 2015 , 9, 715-24	16.7	80
5	Mapping bright and dark modes in gold nanoparticle chains using electron energy loss spectroscopy. <i>Nano Letters</i> , 2014 , 14, 3799-808	11.5	86
4	Surface plasmon coupling in end-to-end linked gold nanorod dimers and trimers. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4258-64	3.6	61
3	DNA-directed self-assembly and optical properties of discrete 1D, 2D and 3D plasmonic structures. <i>Nano Today</i> , 2013 , 8, 138-167	17.9	103
2	The surface plasmon modes of self-assembled gold nanocrystals. <i>Nature Communications</i> , 2012 , 3, 1275	17.4	144
1	Surface plasmon resonances in strongly coupled gold nanosphere chains from monomer to hexamer. <i>Nano Letters</i> , 2011 , 11, 4180-7	11.5	185