

Stefan Guldin

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.

67
papers

2,537
citations

21
h-index

50
g-index

109
ext. papers

2,892
ext. citations

9.6
avg, IF

5.04
L-index

#	Paper	IF	Citations
67	Dye-sensitized solar cell based on a three-dimensional photonic crystal. <i>Nano Letters</i> , 2010 , 10, 2303-9	11.5	295
66	Biomimetic layer-by-layer assembly of artificial nacre. <i>Nature Communications</i> , 2012 , 3, 966	17.4	264
65	Block copolymer self-assembly for nanophotonics. <i>Chemical Society Reviews</i> , 2015 , 44, 5076-91	58.5	248
64	A 3D optical metamaterial made by self-assembly. <i>Advanced Materials</i> , 2012 , 24, OP23-7	24	245
63	Lessons learned: from dye-sensitized solar cells to all-solid-state hybrid devices. <i>Advanced Materials</i> , 2014 , 26, 4013-30	24	133
62	Control of Solid-State Dye-Sensitized Solar Cell Performance by Block-Copolymer-Directed TiO ₂ Synthesis. <i>Advanced Functional Materials</i> , 2010 , 20, 1787-1796	15.6	125
61	Self-cleaning antireflective optical coatings. <i>Nano Letters</i> , 2013 , 13, 5329-35	11.5	124
60	Block copolymer directed synthesis of mesoporous TiO ₂ for dye-sensitized solar cells. <i>Soft Matter</i> , 2009 , 5, 134-139	3.6	104
59	Charge Transport Limitations in Self-Assembled TiO ₂ Photoanodes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 698-703	6.4	103
58	Improved conductivity in dye-sensitized solar cells through block-copolymer confined TiO ₂ crystallisation. <i>Energy and Environmental Science</i> , 2011 , 4, 225-233	35.4	83
57	Tunable mesoporous bragg reflectors based on block-copolymer self-assembly. <i>Advanced Materials</i> , 2011 , 23, 3664-8	24	80
56	Pore Filling of Spiro-OMeTAD in Solid-State Dye-Sensitized Solar Cells Determined Via Optical Reflectometry. <i>Advanced Functional Materials</i> , 2012 , 22, 5010-5019	15.6	72
55	Recent developments in Pickering emulsions for biomedical applications. <i>Current Opinion in Colloid and Interface Science</i> , 2019 , 39, 173-189	7.6	66
54	Gyroid-Structured 3D ZnO Networks Made by Atomic Layer Deposition. <i>Advanced Functional Materials</i> , 2014 , 24, 863-872	15.6	61
53	Triblock-Terpolymer-Directed Self-Assembly of Mesoporous TiO ₂ : High-Performance Photoanodes for Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2012 , 2, 676-682	21.8	53
52	Ordered Mesoporous to Macroporous Oxides with Tunable Isomorphic Architectures: Solution Criteria for Persistent Micelle Templates. <i>Chemistry of Materials</i> , 2016 , 28, 1653-1667	9.6	45
51	Monolithic route to efficient dye-sensitized solar cells employing diblock copolymers for mesoporous TiO ₂ . <i>Journal of Materials Chemistry</i> , 2010 , 20, 1261-1268		40

50	Acoustic Immunosensing of Exosomes Using a Quartz Crystal Microbalance with Dissipation Monitoring. <i>Analytical Chemistry</i> , 2020 , 92, 4082-4093	7.8	32
49	Layer-by-layer formation of block-copolymer-derived TiO ₂ for solid-state dye-sensitized solar cells. <i>Small</i> , 2012 , 8, 432-40	11	32
48	Ordered mesoporous titania from highly amphiphilic block copolymers: tuned solution conditions enable highly ordered morphologies and ultra-large mesopores. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11478-11492	13	31
47	High-Surface-Area Porous Platinum Electrodes for Enhanced Charge Transfer. <i>Advanced Energy Materials</i> , 2014 , 4, 1400510	21.8	22
46	Robust Operation of Mesoporous Antireflective Coatings under Variable Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10315-10321	9.5	19
45	Low temperature crystallisation of mesoporous TiO ₂ . <i>Nanoscale</i> , 2013 , 5, 10518-24	7.7	18
44	Humidity-Tolerant Ultrathin NiO Gas-Sensing Films. <i>ACS Sensors</i> , 2020 , 5, 1389-1397	9.2	16
43	All-Silicone-based Distributed Bragg Reflectors for Efficient Flexible Luminescent Solar Concentrators. <i>Nano Energy</i> , 2020 , 70, 104507	17.1	16
42	Freestanding Ultrathin Nanoparticle Membranes Assembled at Transient Liquid-Liquid Interfaces. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600191	4.6	15
41	Phase behaviour and applications of a binary liquid mixture of methanol and a thermotropic liquid crystal. <i>Soft Matter</i> , 2018 , 14, 4615-4620	3.6	14
40	Refractive indices of MBE-grown Al _x Ga _(1-x) As ternary alloys in the transparent wavelength region. <i>AIP Advances</i> , 2021 , 11, 025327	1.5	14
39	A Versatile AuNP Synthetic Platform for Decoupled Control of Size and Surface Composition. <i>Langmuir</i> , 2018 , 34, 6820-6826	4	13
38	Information Entropy as a Reliable Measure of Nanoparticle Dispersity. <i>Chemistry of Materials</i> , 2020 , 32, 3701-3706	9.6	12
37	High-Performance Planar Thin Film Thermo-chromic Window via Dynamic Optical Impedance Matching. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8140-8145	9.5	11
36	Block Copolymer Directed Metamaterials and Metasurfaces for Novel Optical Devices. <i>Advanced Optical Materials</i> , 2021 , 9, 2100175	8.1	11
35	Structural Characterization of Mesoporous Thin Film Architectures: A Tutorial Overview. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 5195-5208	9.5	10
34	Nanostructure Dependence of T-Nb ₂ O ₅ Intercalation Pseudocapacitance Probed Using Tunable Isomorphic Architectures. <i>Advanced Functional Materials</i> , 2021 , 31, 2007826	15.6	10
33	Photocatalytic Template Removal by Non-Ozone-Generating UV Irradiation for the Fabrication of Well-Defined Mesoporous Inorganic Coatings. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19308-19314	9.5	9

32	pH-Mediated molecular differentiation for fluorimetric quantification of chemotherapeutic drugs in human plasma. <i>Chemical Communications</i> , 2018 , 54, 1485-1488	5.8	7
31	Application of the Spatial Distribution Function to Colloidal Ordering. <i>Langmuir</i> , 2019 , 35, 16605-16611	4	7
30	Fluorinated Metal-Organic Coatings with Selective Wettability. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9972-9981	16.4	7
29	A Toolkit to Quantify Target Compounds in Thin-Layer-Chromatography Experiments. <i>Journal of Chemical Education</i> , 2018 , 95, 2191-2196	2.4	7
28	Multidimensional Characterization of Mixed Ligand Nanoparticles Using Small Angle Neutron Scattering. <i>Chemistry of Materials</i> , 2019 , 31, 6750-6758	9.6	6
27	Inorganic Nanoarchitectures by Organic Self-Assembly. <i>Springer Theses</i> , 2013 ,	0.1	5
26	Probing the interaction of nanoparticles with small molecules in real time via quartz crystal microbalance monitoring. <i>Nanoscale</i> , 2019 , 11, 11107-11113	7.7	4
25	Controlling the coassembly of highly amphiphilic block copolymers with a hydrolytic sol by solvent exchange. <i>RSC Advances</i> , 2015 , 5, 22499-22502	3.7	4
24	Tuning Pore Dimensions of Mesoporous Inorganic Films by Homopolymer Swelling. <i>Langmuir</i> , 2019 , 35, 14074-14082	4	4
23	Fractionation of block copolymers for pore size control and reduced dispersity in mesoporous inorganic thin films. <i>Nanoscale</i> , 2020 , 12, 18455-18462	7.7	4
22	Comparative characterisation of non-monodisperse gold nanoparticle populations by X-ray scattering and electron microscopy. <i>Nanoscale</i> , 2020 , 12, 12007-12013	7.7	3
21	Self-assembly as a design tool for the integration of photonic structures into excitonic solar cells 2011 ,		3
20	A combined experimental and theoretical study into the performance of multilayer vanadium dioxide nanocomposites for energy saving applications 2018 ,		3
19	Microfluidics of binary liquid mixtures with temperature-dependent miscibility. <i>Molecular Systems Design and Engineering</i> , 2020 , 5, 358-365	4.6	3
18	Temperature-induced liquid crystal microdroplet formation in a partially miscible liquid mixture. <i>Soft Matter</i> , 2021 , 17, 947-954	3.6	3
17	Use of a New Non-Pyrophoric Liquid Aluminum Precursor for Atomic Layer Deposition. <i>Materials</i> , 2019 , 12,	3.5	2
16	Optical Aspects of Thin Films and Interfaces. <i>Springer Theses</i> , 2013 , 19-32	0.1	2
15	Mesoporous Bragg reflectors: block-copolymer self-assembly leads to building blocks with well defined continuous pores and high control over optical properties 2011 ,		2

14	Dual-Mode and Label-Free Detection of Exosomes from Plasma Using an Electrochemical Quartz Crystal Microbalance with Dissipation Monitoring.. <i>Analytical Chemistry</i> , 2022 ,	7.8	2
13	Supramolecular packing of alkyl substituted Janus face all- 2,3,4,5,6-pentafluorocyclohexyl motifs. <i>Chemical Science</i> , 2021 , 12, 9712-9719	9.4	2
12	Noble metal nanoparticles with anisotropy in shape and surface functionality for biomedical applications 2018 , 313-333		2
11	Faster Intercalation Pseudocapacitance Enabled by Adjustable Amorphous Titania where Tunable Isomorphic Architectures Reveal Accelerated Lithium Diffusivity. <i>Batteries and Supercaps</i> ,	5.6	2
10	Soft matter design principles for inorganic photonic nanoarchitectures in photovoltaics, colorimetric sensing, and self-cleaning antireflective coatings 2014 ,		1
9	Tunable Mesoporous Bragg Reflectors Based on Block Copolymer Self-Assembly. <i>Springer Theses</i> , 2013 , 117-127	0.1	1
8	Synthetic guidelines for the precision engineering of gold nanoparticles. <i>Current Opinion in Chemical Engineering</i> , 2020 , 29, 59-66	5.4	
7	Block Copolymer-Induced Structure Control for Inorganic Nanomaterials. <i>Springer Theses</i> , 2013 , 71-85	0.1	
6	Crystal Growth in Block Copolymer-Derived Mesoporous TiO ₂ . <i>Springer Theses</i> , 2013 , 87-100	0.1	
5	Thin Film Processing of Block Copolymer Structure-Directed Inorganic Materials. <i>Springer Theses</i> , 2013 , 101-115	0.1	
4	Dye-Sensitised Solar Cell Based on a Three-Dimensional Photonic Crystal. <i>Springer Theses</i> , 2013 , 129-140	0.1	
3	Optimising Light Source Positioning for Even and Flux-Efficient Illumination. <i>Journal of Open Source Software</i> , 2019 , 4, 1392	5.2	
2	Pseudocapacitance: Nanostructure Dependence of T-Nb ₂ O ₅ Intercalation Pseudocapacitance Probed Using Tunable Isomorphic Architectures (Adv. Funct. Mater. 1/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170005	15.6	
1	Chemical vapour deposition (CVD) of nickel oxide using the novel nickel dialkylaminoalkoxide precursor [Ni(dmamp)] (dmamp= 2-dimethylamino-2-methyl-1-propanolate).. <i>RSC Advances</i> , 2021 , 11, 22199-22205	3.7	