Stefan Guldin

List of Publications by Year in Descending Order

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	Dual-Mode and Label-Free Detection of Exosomes from Plasma Using an Electrochemical Quartz Crystal Microbalance with Dissipation Monitoring.. *Analytical Chemistry*, **2022**,	7.8	2
66	Block Copolymer Directed Metamaterials and Metasurfaces for Novel Optical Devices. *Advanced Optical Materials*, **2021**, 9, 2100175	8.1	11
65	Fluorinated Metal-Organic Coatings with Selective Wettability. *Journal of the American Chemical Society*, **2021**, 143, 9972-9981	16.4	7
64	Temperature-induced liquid crystal microdroplet formation in a partially miscible liquid mixture. *Soft Matter*, **2021**, 17, 947-954	3.6	3
63	Nanostructure Dependence of T-Nb 2 O 5 Intercalation Pseudocapacitance Probed Using Tunable Isomorphic Architectures. *Advanced Functional Materials*, **2021**, 31, 2007826	15.6	10
62	Pseudocapacitance: Nanostructure Dependence of T-Nb2O5 Intercalation Pseudocapacitance Probed Using Tunable Isomorphic Architectures (Adv. Funct. Mater. 1/2021). *Advanced Functional Materials*, **2021**, 31, 2170005	15.6	
61	Chemical vapour deposition (CVD) of nickel oxide using the novel nickel dialkylaminoalkoxide precursor [Ni(dmampT)] (dmampT= 2-dimethylamino-2-methyl-1-propanolate).. *RSC Advances*, **2021**, 11, 22199-22205	3.7	
60	Supramolecular packing of alkyl substituted Janus face all- 2,3,4,5,6-pentafluorocyclohexyl motifs. *Chemical Science*, **2021**, 12, 9712-9719	9.4	2
59	Refractive indices of MBE-grown AlxGa(1−x)As ternary alloys in the transparent wavelength region. *AIP Advances*, **2021**, 11, 025327	1.5	14
58	Comparative characterisation of non-monodisperse gold nanoparticle populations by X-ray scattering and electron microscopy. *Nanoscale*, **2020**, 12, 12007-12013	7.7	3
57	Synthetic guidelines for the precision engineering of gold nanoparticles. *Current Opinion in Chemical Engineering*, **2020**, 29, 59-66	5.4	
56	Structural Characterization of Mesoporous Thin Film Architectures: A Tutorial Overview. *ACS Applied Materials & Interfaces*, **2020**, 12, 5195-5208	9.5	10
55	Acoustic Immunosensing of Exosomes Using a Quartz Crystal Microbalance with Dissipation Monitoring. *Analytical Chemistry*, **2020**, 92, 4082-4093	7.8	32
54	High-Performance Planar Thin Film Thermochromic Window via Dynamic Optical Impedance Matching. *ACS Applied Materials & Interfaces*, **2020**, 12, 8140-8145	9.5	11
53	Information Entropy as a Reliable Measure of Nanoparticle Dispersity. *Chemistry of Materials*, **2020**, 32, 3701-3706	9.6	12
52	Humidity-Tolerant Ultrathin NiO Gas-Sensing Films. *ACS Sensors*, **2020**, 5, 1389-1397	9.2	16
51	All-Silicone-based Distributed Bragg Reflectors for Efficient Flexible Luminescent Solar Concentrators. *Nano Energy*, **2020**, 70, 104507	17.1	16

50	Microfluidics of binary liquid mixtures with temperature-dependent miscibility. *Molecular Systems Design and Engineering*, **2020**, 5, 358-365	4.6	3
49	Fractionation of block copolymers for pore size control and reduced dispersity in mesoporous inorganic thin films. *Nanoscale*, **2020**, 12, 18455-18462	7.7	4
48	Probing the interaction of nanoparticles with small molecules in real time via quartz crystal microbalance monitoring. *Nanoscale*, **2019**, 11, 11107-11113	7.7	4
47	Multidimensional Characterization of Mixed Ligand Nanoparticles Using Small Angle Neutron Scattering. *Chemistry of Materials*, **2019**, 31, 6750-6758	9.6	6
46	Use of a New Non-Pyrophoric Liquid Aluminum Precursor for Atomic Layer Deposition. *Materials*, **2019**, 12,	3.5	2
45	Photocatalytic Template Removal by Non-Ozone-Generating UV Irradiation for the Fabrication of Well-Defined Mesoporous Inorganic Coatings. *ACS Applied Materials & Interfaces*, **2019**, 11, 19308-19314	8.5	9
44	Recent developments in Pickering emulsions for biomedical applications. *Current Opinion in Colloid and Interface Science*, **2019**, 39, 173-189	7.6	66
43	Tuning Pore Dimensions of Mesoporous Inorganic Films by Homopolymer Swelling. *Langmuir*, **2019**, 35, 14074-14082	4	4
42	Application of the Spatial Distribution Function to Colloidal Ordering. *Langmuir*, **2019**, 35, 16605-16611	4	7
41	Optimising Light Source Positioning for Even and Flux-Efficient Illumination. *Journal of Open Source Software*, **2019**, 4, 1392	5.2	
40	Robust Operation of Mesoporous Antireflective Coatings under Variable Ambient Conditions. *ACS Applied Materials & Interfaces*, **2018**, 10, 10315-10321	9.5	19
39	pH-Mediated molecular differentiation for fluorimetric quantification of chemotherapeutic drugs in human plasma. *Chemical Communications*, **2018**, 54, 1485-1488	5.8	7
38	Phase behaviour and applications of a binary liquid mixture of methanol and a thermotropic liquid crystal. *Soft Matter*, **2018**, 14, 4615-4620	3.6	14
37	A combined experimental and theoretical study into the performance of multilayer vanadium dioxide nanocomposites for energy saving applications **2018**,		3
36	A Toolkit to Quantify Target Compounds in Thin-Layer-Chromatography Experiments. *Journal of Chemical Education*, **2018**, 95, 2191-2196	2.4	7
35	Noble metal nanoparticles with anisotropy in shape and surface functionality for biomedical applications **2018**, 313-333		2
34	A Versatile AuNP Synthetic Platform for Decoupled Control of Size and Surface Composition. *Langmuir*, **2018**, 34, 6820-6826	4	13
33	Freestanding Ultrathin Nanoparticle Membranes Assembled at Transient Liquid–Liquid Interfaces. *Advanced Materials Interfaces*, **2016**, 3, 1600191	4.6	15

32	Ordered Mesoporous to Macroporous Oxides with Tunable Isomorphic Architectures: Solution Criteria for Persistent Micelle Templates. *Chemistry of Materials*, **2016**, 28, 1653-1667	9.6	45
31	Controlling the coassembly of highly amphiphilic block copolymers with a hydrolytic sol by solvent exchange. *RSC Advances*, **2015**, 5, 22499-22502	3.7	4
30	Block copolymer self-assembly for nanophotonics. *Chemical Society Reviews*, **2015**, 44, 5076-91	58.5	248
29	Ordered mesoporous titania from highly amphiphilic block copolymers: tuned solution conditions enable highly ordered morphologies and ultra-large mesopores. *Journal of Materials Chemistry A*, **2015**, 3, 11478-11492	13	31
28	Lessons learned: from dye-sensitized solar cells to all-solid-state hybrid devices. *Advanced Materials* , **2014**, 26, 4013-30	24	133
27	High-Surface-Area Porous Platinum Electrodes for Enhanced Charge Transfer. *Advanced Energy Materials*, **2014**, 4, 1400510	21.8	22
26	Gyroid-Structured 3D ZnO Networks Made by Atomic Layer Deposition. *Advanced Functional Materials*, **2014**, 24, 863-872	15.6	61
25	Soft matter design principles for inorganic photonic nanoarchitectures in photovoltaics, colorimetric sensing, and self-cleaning antireflective coatings **2014**,		1
24	Charge Transport Limitations in Self-Assembled TiO2 Photoanodes for Dye-Sensitized Solar Cells. *Journal of Physical Chemistry Letters*, **2013**, 4, 698-703	6.4	103
23	Low temperature crystallisation of mesoporous TiO2. *Nanoscale*, **2013**, 5, 10518-24	7.7	18
22	Self-cleaning antireflective optical coatings. *Nano Letters*, **2013**, 13, 5329-35	11.5	124
21	Inorganic Nanoarchitectures by Organic Self-Assembly. *Springer Theses*, **2013**,	0.1	5
20	Optical Aspects of Thin Films and Interfaces. *Springer Theses*, **2013**, 19-32	0.1	2
19	Block Copolymer-Induced Structure Control for Inorganic Nanomaterials. *Springer Theses*, **2013**, 71-85	0.1	
18	Crystal Growth in Block Copolymer-Derived Mesoporous TiO(_2). *Springer Theses*, **2013**, 87-100	0.1	
17	Tunable Mesoporous Bragg Reflectors Based on Block Copolymer Self-Assembly. *Springer Theses*, **2013**, 117-127	0.1	1
16	Thin Film Processing of Block Copolymer Structure-Directed Inorganic Materials. *Springer Theses*, **2013**, 101-115	0.1	
15	Dye-Sensitised Solar Cell Based on a Three-Dimensional Photonic Crystal. *Springer Theses*, **2013**, 129-140	0.1	

14	A 3D optical metamaterial made by self-assembly. *Advanced Materials*, **2012**, 24, OP23-7	24	245
13	Layer-by-layer formation of block-copolymer-derived TiO(2) for solid-state dye-sensitized solar cells. *Small*, **2012**, 8, 432-40	11	32
12	Biomimetic layer-by-layer assembly of artificial nacre. *Nature Communications*, **2012**, 3, 966	17.4	264
11	Pore Filling of Spiro-OMeTAD in Solid-State Dye-Sensitized Solar Cells Determined Via Optical Reflectometry. *Advanced Functional Materials*, **2012**, 22, 5010-5019	15.6	72
10	Triblock-Terpolymer-Directed Self-Assembly of Mesoporous TiO2: High-Performance Photoanodes for Solid-State Dye-Sensitized Solar Cells. *Advanced Energy Materials*, **2012**, 2, 676-682	21.8	53
9	Tunable mesoporous bragg reflectors based on block-copolymer self-assembly. *Advanced Materials*, **2011**, 23, 3664-8	24	80
8	Improved conductivity in dye-sensitised solar cells through block-copolymer confined TiO2 crystallisation. *Energy and Environmental Science*, **2011**, 4, 225-233	35.4	83
7	Mesoporous Bragg reflectors: block-copolymer self-assembly leads to building blocks with well defined continuous pores and high control over optical properties **2011**,		2
6	Self-assembly as a design tool for the integration of photonic structures into excitonic solar cells **2011**,		3
5	Dye-sensitized solar cell based on a three-dimensional photonic crystal. *Nano Letters*, **2010**, 10, 2303-9	11.5	295
4	Monolithic route to efficient dye-sensitized solar cells employing diblock copolymers for mesoporous TiO2. *Journal of Materials Chemistry*, **2010**, 20, 1261-1268		40
3	Control of Solid-State Dye-Sensitized Solar Cell Performance by Block-Copolymer-Directed TiO2 Synthesis. *Advanced Functional Materials*, **2010**, 20, 1787-1796	15.6	125
2	Block copolymer directed synthesis of mesoporous TiO2 for dye-sensitized solar cells. *Soft Matter*, **2009**, 5, 134-139	3.6	104
1	Faster Intercalation Pseudocapacitance Enabled by Adjustable Amorphous Titania where Tunable Isomorphic Architectures Reveal Accelerated Lithium Diffusivity. *Batteries and Supercaps*,	5.6	2