Stefan Guldin

List of Publications by Year
in descending order

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72 papers	3,238 citations	218381 26 h-index	149479 56 g-index
109 all docs	109 docs citations	109 times ranked	5286 citing authors

#	Article	IF	Citations
1	Dual-Mode and Label-Free Detection of Exosomes from Plasma Using an Electrochemical Quartz Crystal Microbalance with Dissipation Monitoring. Analytical Chemistry, 2022, 94, 2465-2475.	3.2	14
2	Controlled Porosity in Ferroelectric BaTiO₃ Photoanodes. ACS Applied Materials & Interfaces, 2022, 14, 13147-13157.	4.0	9
3	Solvent Vapor Annealing for Controlled Pore Expansion of Block Copolymer-Assembled Inorganic Mesoporous Films. Langmuir, 2022, 38, 3297-3304.	1.6	11
4	Controlled synthesis of SPION@SiO₂ nanoparticles using design of experiments. Materials Advances, 2022, 3, 6007-6018.	2.6	6
5	Cover Feature: Faster Intercalation Pseudocapacitance Enabled by Adjustable Amorphous Titania Where Tunable Isomorphic Architectures Reveal Accelerated Lithium Diffusivity (Batteries &) Tj ETQq1 1 0.784314 rgBT /Overloc	2.4	1
6	Temperature-induced liquid crystal microdroplet formation in a partially miscible liquid mixture. Soft Matter, 2021, 17, 947-954.	1.2	9
7	Nanostructure Dependence of Tâ€Nb₂O₅ Intercalation Pseudocapacitance Probed Using Tunable Isomorphic Architectures. Advanced Functional Materials, 2021, 31, .	7.8	24
8	Pseudocapacitance: Nanostructure Dependence of Tâ€Nb₂O₅ Intercalation Pseudocapacitance Probed Using Tunable Isomorphic Architectures (Adv. Funct. Mater. 1/2021). Advanced Functional Materials, 2021, 31, 2170005.	7.8	0
9	Chemical vapour deposition (CVD) of nickel oxide using the novel nickel dialkylaminoalkoxide precursor [Ni(dmampâ€²)₂] (dmampâ€² = 2-dimethylamino-2-methyl-1-propanolate). RSC Advances, 2021, 11, 22199-22205.	1.7	5
10	Supramolecular packing of alkyl substituted Janus face all-cis 2,3,4,5,6-pentafluorocyclohexyl motifs. Chemical Science, 2021, 12, 9712-9719.	3.7	10
11	Refractive indices of MBE-grown AlxGa(1â^'x)As ternary alloys in the transparent wavelength region. AIP Advances, 2021, 11, .	0.6	52
12	Block Copolymer Directed Metamaterials and Metasurfaces for Novel Optical Devices. Advanced Optical Materials, 2021, 9, 2100175.	3.6	47
13	Fluorinated Metalâ€"Organic Coatings with Selective Wettability. Journal of the American Chemical Society, 2021, 143, 9972-9981.	6.6	21
14	Microfluidics of binary liquid mixtures with temperature-dependent miscibility. Molecular Systems Design and Engineering, 2020, 5, 358-365.	1.7	6
15	Fractionation of block copolymers for pore size control and reduced dispersity in mesoporous inorganic thin films. Nanoscale, 2020, 12, 18455-18462.	2.8	9
16	Comparative characterisation of non-monodisperse gold nanoparticle populations by X-ray scattering and electron microscopy. Nanoscale, 2020, 12, 12007-12013.	2.8	10
17	Synthetic guidelines for the precision engineering of gold nanoparticles. Current Opinion in Chemical Engineering, 2020, 29, 59-66.	3.8	1
18	Structural Characterization of Mesoporous Thin Film Architectures: A Tutorial Overview. ACS Applied Materials & Interfaces, 2020, 12, 5195-5208.	4.0	33

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19	Acoustic Immunosensing of Exosomes Using a Quartz Crystal Microbalance with Dissipation Monitoring. Analytical Chemistry, 2020, 92, 4082-4093.	3.2	55
20	High-Performance Planar Thin Film Thermochromic Window via Dynamic Optical Impedance Matching. ACS Applied Materials & Interfaces, 2020, 12, 8140-8145.	4.0	22
21	Information Entropy as a Reliable Measure of Nanoparticle Dispersity. Chemistry of Materials, 2020, 32, 3701-3706.	3.2	21
22	Humidity-Tolerant Ultrathin NiO Gas-Sensing Films. ACS Sensors, 2020, 5, 1389-1397.	4.0	38
23	All-Silicone-based Distributed Bragg Reflectors for Efficient Flexible Luminescent Solar Concentrators. Nano Energy, 2020, 70, 104507.	8.2	28
24	Tuning Pore Dimensions of Mesoporous Inorganic Films by Homopolymer Swelling. Langmuir, 2019, 35, 14074-14082.	1.6	12
25	Application of the Spatial Distribution Function to Colloidal Ordering. Langmuir, 2019, 35, 16605-16611.	1.6	15
26	Probing the interaction of nanoparticles with small molecules in real time via quartz crystal microbalance monitoring. Nanoscale, 2019, 11, 11107-11113.	2.8	4
27	Multidimensional Characterization of Mixed Ligand Nanoparticles Using Small Angle Neutron Scattering. Chemistry of Materials, 2019, 31, 6750-6758.	3.2	12
28	Use of a New Non-Pyrophoric Liquid Aluminum Precursor for Atomic Layer Deposition. Materials, 2019, 12, 1429.	1.3	6
29	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.	4.0	16
30	Recent developments in Pickering emulsions for biomedical applications. Current Opinion in Colloid and Interface Science, 2019, 39, 173-189.	3.4	113
31	Optimising Light Source Positioning for Even and Flux-Efficient Illumination. Journal of Open Source Software, 2019, 4, 1392.	2.0	1
32	Robust Operation of Mesoporous Antireflective Coatings under Variable Ambient Conditions. ACS Applied Materials & Interfaces, 2018, 10, 10315-10321.	4.0	33
33	pH-Mediated molecular differentiation for fluorimetric quantification of chemotherapeutic drugs in human plasma. Chemical Communications, 2018, 54, 1485-1488.	2.2	10
34	Phase behaviour and applications of a binary liquid mixture of methanol and a thermotropic liquid crystal. Soft Matter, 2018, 14, 4615-4620.	1.2	17
35	A Toolkit to Quantify Target Compounds in Thin-Layer-Chromatography Experiments. Journal of Chemical Education, 2018, 95, 2191-2196.	1.1	16
36	Noble metal nanoparticles with anisotropy in shape and surface functionality for biomedical applications. , 2018, , 313-333.		2

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37	A Versatile AuNP Synthetic Platform for Decoupled Control of Size and Surface Composition. Langmuir, 2018, 34, 6820-6826.	1.6	26
38	A combined experimental and theoretical study into the performance of multilayer vanadium dioxide nanocomposites for energy saving applications. , 2018, , .		3
39	Freestanding Ultrathin Nanoparticle Membranes Assembled at Transient Liquidâ€"Liquid Interfaces. Advanced Materials Interfaces, 2016, 3, 1600191.	1.9	16
40	Ordered Mesoporous to Macroporous Oxides with Tunable Isomorphic Architectures: Solution Criteria for Persistent Micelle Templates. Chemistry of Materials, 2016, 28, 1653-1667.	3.2	57
41	Controlling the coassembly of highly amphiphilic block copolymers with a hydrolytic sol by solvent exchange. RSC Advances, 2015, 5, 22499-22502.	1.7	4
42	Block copolymer self-assembly for nanophotonics. Chemical Society Reviews, 2015, 44, 5076-5091.	18.7	328
43	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.	5.2	35
44	Gyroidâ€Structured 3D ZnO Networks Made by Atomic Layer Deposition. Advanced Functional Materials, 2014, 24, 863-872.	7.8	68
45	Soft matter design principles for inorganic photonic nanoarchitectures in photovoltaics, colorimetric sensing, and self-cleaning antireflective coatings. Proceedings of SPIE, 2014, , .	0.8	1
46	Lessons Learned: From Dyeâ€Sensitized Solar Cells to Allâ€Solidâ€State Hybrid Devices. Advanced Materials, 2014, 26, 4013-4030.	11.1	144
47	Highâ€Surfaceâ€Area Porous Platinum Electrodes for Enhanced Charge Transfer. Advanced Energy Materials, 2014, 4, 1400510.	10.2	26
48	Charge Transport Limitations in Self-Assembled TiO₂ Photoanodes for Dye-Sensitized Solar Cells. Journal of Physical Chemistry Letters, 2013, 4, 698-703.	2.1	111
49	Low temperature crystallisation of mesoporous TiO2. Nanoscale, 2013, 5, 10518.	2.8	19
50	Self-Cleaning Antireflective Optical Coatings. Nano Letters, 2013, 13, 5329-5335.	4.5	155
51	Inorganic Nanoarchitectures by Organic Self-Assembly. Springer Theses, 2013, , .	0.0	8
52	Optical Aspects of Thin Films and Interfaces. Springer Theses, 2013, , 19-32.	0.0	3
53	Block Copolymer-Induced Structure Control for Inorganic Nanomaterials. Springer Theses, 2013, , 71-85.	0.0	0
54	Crystal Growth in Block Copolymer-Derived Mesoporous TiO$$_2$$. Springer Theses, 2013, , 87-100.	0.0	0

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55	Tunable Mesoporous Bragg Reflectors Based on Block Copolymer Self-Assembly. Springer Theses, 2013, , 117-127.	0.0	2
56	Thin Film Processing of Block Copolymer Structure-Directed Inorganic Materials. Springer Theses, 2013, , 101-115.	0.0	0
57	Dye-Sensitised Solar Cell Based on a Three-Dimensional Photonic Crystal. Springer Theses, 2013, , 129-140.	0.0	0
58	Layerâ€byâ€Layer Formation of Blockâ€Copolymerâ€Derived TiO₂ for Solidâ€State Dyeâ€Sensitized Solar Cells. Small, 2012, 8, 432-440.	5.2	35
59	Biomimetic layer-by-layer assembly of artificial nacre. Nature Communications, 2012, 3, 966.	5.8	303
60	Pore Filling of Spiroâ€OMeTAD in Solidâ€State Dyeâ€Sensitized Solar Cells Determined Via Optical Reflectometry. Advanced Functional Materials, 2012, 22, 5010-5019.	7.8	78
61	Triblockâ€Terpolymerâ€Directed Selfâ€Assembly of Mesoporous TiO₂: Highâ€Performance Photoanodes for Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2012, 2, 676-682.	10.2	58
62	A 3D Optical Metamaterial Made by Selfâ€Assembly. Advanced Materials, 2012, 24, OP23-7.	11.1	288
63	Improved conductivity in dye-sensitised solar cells through block-copolymer confined TiO₂crystallisation. Energy and Environmental Science, 2011, 4, 225-233.	15.6	88
64	Tunable Mesoporous Bragg Reflectors Based on Blockâ€Copolymer Selfâ€Assembly. Advanced Materials, 2011, 23, 3664-3668.	11.1	88
65	Mesoporous Bragg reflectors: block-copolymer self-assembly leads to building blocks with well defined continuous pores and high control over optical properties. , 2011, , .		2
66	Self-assembly as a design tool for the integration of photonic structures into excitonic solar cells. Proceedings of SPIE, 2011, , .	0.8	3
67	Control of Solidâ€State Dyeâ€Sensitized Solar Cell Performance by Blockâ€Copolymerâ€Directed TiO₂ Synthesis. Advanced Functional Materials, 2010, 20, 1787-1796.	7.8	131
68	Dye-Sensitized Solar Cell Based on a Three-Dimensional Photonic Crystal. Nano Letters, 2010, 10, 2303-2309.	4.5	310
69	Monolithic route to efficient dye-sensitized solar cells employing diblock copolymers for mesoporous TiO2. Journal of Materials Chemistry, 2010, 20, 1261-1268.	6.7	40
70	Block copolymer directed synthesis of mesoporous TiO2for dye-sensitized solar cells. Soft Matter, 2009, 5, 134-139.	1.2	108
71	Using nanocavity plasmons to improve solar cell efficiency. , 2009, , .		0
72	Faster Intercalation Pseudocapacitance Enabled by Adjustable Amorphous Titania where Tunable Isomorphic Architectures Reveal Accelerated Lithium Diffusivity. Batteries and Supercaps, 0, , .	2.4	4