

Stefan A L Weber

List of Publications by Year in descending order

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61
papers

2,890
citations

186265

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168389

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all docs

64
docs citations

64
times ranked

4461
citing authors

#	ARTICLE	IF	CITATIONS
1	Charging of drops impacting onto superhydrophobic surfaces. <i>Soft Matter</i> , 2022, 18, 1628-1635.	2.7	12
2	Martini 3 Model of Cellulose Microfibrils: On the Route to Capture Large Conformational Changes of Polysaccharides. <i>Molecules</i> , 2022, 27, 976.	3.8	7
3	Spontaneous charging affects the motion of sliding drops. <i>Nature Physics</i> , 2022, 18, 713-719.	16.7	62
4	Tuning the Charge of Sliding Water Drops. <i>Langmuir</i> , 2022, 38, 6224-6230.	3.5	10
5	Fine Customization of Calcium Phosphate Nanostructures with Site-Specific Modification by DNA Templated Mineralization. <i>ACS Nano</i> , 2021, 15, 1555-1565.	14.6	29
6	Two birds with one stone: dual grain-boundary and interface passivation enables >22% efficient inverted methylammonium-free perovskite solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 5875-5893.	30.8	180
7	Recent progress in atomic and molecular physics for controlled fusion and astrophysics. <i>Matter and Radiation at Extremes</i> , 2021, 6, 023002.	3.9	3
8	On the Shape-Selected, Ligand-Free Preparation of Hybrid Perovskite (CH ₃ NH ₃ PbBr ₃) Microcrystals and Their Suitability as Model-System for Single-Crystal Studies of Optoelectronic Properties. <i>Nanomaterials</i> , 2021, 11, 3057.	4.1	3
9	IM30 IDPs form a membrane-protective carpet upon super-complex disassembly. <i>Communications Biology</i> , 2020, 3, 595.	4.4	16
10	Anisotropic carrier diffusion in single MAPbI ₃ grains correlates to their twin domains. <i>Energy and Environmental Science</i> , 2020, 13, 4168-4177.	30.8	27
11	Grafting Silicone at Room Temperature—a Transparent, Scratch-resistant Nonstick Molecular Coating. <i>Langmuir</i> , 2020, 36, 4416-4431.	3.5	76
12	Slide electrification: charging of surfaces by moving water drops. <i>Soft Matter</i> , 2019, 15, 8667-8679.	2.7	66
13	Removal of Surface Oxygen Vacancies Increases Conductance Through TiO ₂ Thin Films for Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13458-13466.	3.1	54
14	Alignment of solid targets under extreme tight focus conditions generated by an ellipsoidal plasma mirror. <i>Matter and Radiation at Extremes</i> , 2019, 4, 024402.	3.9	6
15	Wave-based laser absorption method for high-order transport—hydrodynamic codes. <i>Advances in Computational Mathematics</i> , 2019, 45, 1953-1976.	1.6	3
16	Preface to Special Topic: Extreme High-Field Physics Driven by Lasers. <i>Matter and Radiation at Extremes</i> , 2019, 4, 063002.	3.9	0
17	The application of atomic force microscopy in mineral flotation. <i>Advances in Colloid and Interface Science</i> , 2018, 256, 373-392.	14.7	108
18	Evidence of Tailoring the Interfacial Chemical Composition in Normal Structure Hybrid Organohalide Perovskites by a Self-Assembled Monolayer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5511-5518.	8.0	32

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19	Ion Specificity on Electric Energy Generated by Flowing Water Droplets. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2091-2095.	13.8	58
20	Ion Specificity on Electric Energy Generated by Flowing Water Droplets. <i>Angewandte Chemie</i> , 2018, 130, 2113-2117.	2.0	4
21	Orientation of Ferroelectric Domains and Disappearance upon Heating Methylammonium Lead Triiodide Perovskite from Tetragonal to Cubic Phase. <i>ACS Applied Energy Materials</i> , 2018, 1, 1534-1539.	5.1	49
22	Applications of KPFM-Based Approaches for Surface Potential and Electrochemical Measurements in Liquid. <i>Springer Series in Surface Sciences</i> , 2018, , 391-433.	0.3	3
23	Quantitative comparison of closed-loop and dual harmonic Kelvin probe force microscopy techniques. <i>Review of Scientific Instruments</i> , 2018, 89, 123708.	1.3	13
24	The Interplay of Contact Layers: How the Electron Transport Layer Influences Interfacial Recombination and Hole Extraction in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6249-6256.	4.6	68
25	Detaching Microparticles from a Liquid Surface. <i>Physical Review Letters</i> , 2018, 121, 048002.	7.8	27
26	Adaptive Wettingâ€”Adaptation in Wetting. <i>Langmuir</i> , 2018, 34, 11292-11304.	3.5	66
27	Know your full potential: Quantitative Kelvin probe force microscopy on nanoscale electrical devices. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1809-1819.	2.8	47
28	How the formation of interfacial charge causes hysteresis in perovskite solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 2404-2413.	30.8	289
29	Local Time-Dependent Charging in a Perovskite Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19402-19409.	8.0	109
30	Ferroelastic Fingerprints in Methylammonium Lead Iodide Perovskite. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5724-5731.	3.1	154
31	Preparing DNA-mimicking multi-line nanocaterpillars <i>via in situ</i> nanoparticlisation of fully conjugated polymers. <i>Polymer Chemistry</i> , 2016, 7, 1422-1428.	3.9	19
32	Humidity-Induced Grain Boundaries in MAPbI ₃ Perovskite Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6363-6368.	3.1	103
33	Surface Modification of TiO ₂ Photoanodes with Fluorinated Self-Assembled Monolayers for Highly Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25741-25747.	8.0	29
34	Irradiation uniformity at the Laser MegaJoule facility in the context of the shock ignition scheme. <i>High Power Laser Science and Engineering</i> , 2014, 2, .	4.6	23
35	Probing charge screening dynamics and electrochemical processes at the solidâ€”liquid interface with electrochemical force microscopy. <i>Nature Communications</i> , 2014, 5, 3871.	12.8	97
36	Enhanced power conversion efficiency of inverted organic solar cells by using solution processed Sn-doped TiO ₂ as an electron transport layer. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11426.	10.3	20

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37	Dual harmonic Kelvin probe force microscopy at the graphene-liquid interface. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	50
38	Real-space observation of unbalanced charge distribution inside a perovskite-sensitized solar cell. <i>Nature Communications</i> , 2014, 5, 5001.	12.8	294
39	High viscosity environments: an unexpected route to obtain true atomic resolution with atomic force microscopy. <i>Nanotechnology</i> , 2014, 25, 175701.	2.6	5
40	Electrical characterization of organic solar cell materials based on scanning force microscopy. <i>European Polymer Journal</i> , 2013, 49, 1907-1915.	5.4	46
41	Open loop Kelvin probe force microscopy with single and multi-frequency excitation. <i>Nanotechnology</i> , 2013, 24, 475702.	2.6	63
42	Electrical tip-sample contact in scanning conductive torsion mode. <i>Applied Physics Letters</i> , 2013, 102, 163105.	3.3	6
43	Photoreduction of SERS-Active Metallic Nanostructures on Chemically Patterned Ferroelectric Crystals. <i>ACS Nano</i> , 2012, 6, 7373-7380.	14.6	59
44	Electrical Characterization of Solar Cell Materials Using Scanning Probe Microscopy. <i>Nanoscience and Technology</i> , 2012, , 551-573.	1.5	3
45	Kelvin Probe Force Microscopy in Nonpolar Liquids. <i>Langmuir</i> , 2012, 28, 13892-13899.	3.5	35
46	Investigating morphology and electronic properties of self-assembled hybrid systems for solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 7765.	6.7	10
47	Electrodeposition of ZnO nanorods on opaline replica as hierarchically structured systems. <i>Journal of Materials Chemistry</i> , 2011, 21, 1079-1085.	6.7	3
48	Photoinduced Degradation Studies of Organic Solar Cell Materials Using Kelvin Probe Force and Conductive Scanning Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19994-20001.	3.1	33
49	Thermodynamics of nanosecond nanobubble formation at laser-excited metal nanoparticles. <i>New Journal of Physics</i> , 2011, 13, 043018.	2.9	138
50	Electrical Scanning Probe Microscopy of an Integrated Blocking Layer. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6840-6844.	0.9	4
51	Template-Based Preparation of Free-Standing Semiconducting Polymeric Nanorod Arrays on Conductive Substrates. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1573-1580.	8.0	23
52	Mapping of Local Conductivity Variations on Fragile Nanopillar Arrays by Scanning Conductive Torsion Mode Microscopy. <i>Nano Letters</i> , 2010, 10, 1194-1197.	9.1	25
53	Light Induced Charging of Polymer Functionalized Nanorods. <i>Nano Letters</i> , 2010, 10, 2812-2816.	9.1	29
54	Characterization of Quantum Dot/Conducting Polymer Hybrid Films and Their Application to Light-Emitting Diodes. <i>Advanced Materials</i> , 2009, 21, 5022-5026.	21.0	90

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55	Electrical Modes in Scanning Probe Microscopy. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1167-1178.	3.9	77
56	Integrated blocking layers for hybrid organic solar cells. <i>Energy and Environmental Science</i> , 2009, 2, 783.	30.8	23
57	Watching Ions Move: Scanning Probe Microscopy on Perovskite Solar Cells. , 0, , .		0
58	Two Birds with One Stone: Dual Grain-Boundary and Interface Passivation Enables > 22% Efficient Inverted Methylammonium-Free Perovskite Solar Cells. , 0, , .		0
59	Correlating Cathodoluminescence and Kelvin Probe Force Microscopy Measurements of Methylammonium-Free 2D Ruddlesden Popper Passivated Perovskite Absorbers. , 0, , .		0
60	Anisotropic Charge Carrier Diffusion Correlated to Ferroelastic Twin Domains in MAPbI ₃ Perovskite. , 0, , .		0
61	Watching Ions Move: Scanning Probe Microscopy on Perovskite Solar Cells. , 0, , .		0