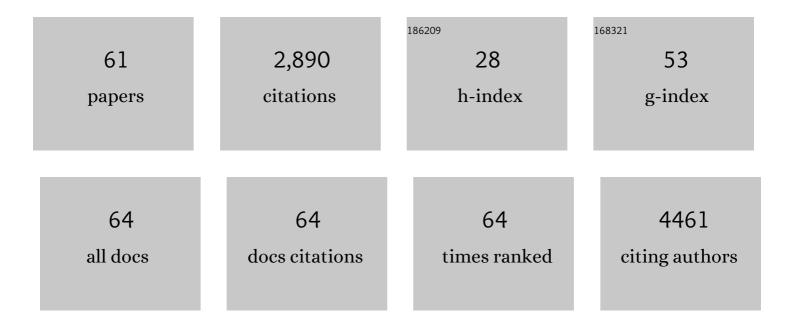
Stefan A L Weber

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Charging of drops impacting onto superhydrophobic surfaces. Soft Matter, 2022, 18, 1628-1635.	1.2	12
2	Martini 3 Model of Cellulose Microfibrils: On the Route to Capture Large Conformational Changes of Polysaccharides. Molecules, 2022, 27, 976.	1.7	7
3	Spontaneous charging affects the motion of sliding drops. Nature Physics, 2022, 18, 713-719.	6.5	62
4	Tuning the Charge of Sliding Water Drops. Langmuir, 2022, 38, 6224-6230.	1.6	10
5	Fine Customization of Calcium Phosphate Nanostructures with Site-Specific Modification by DNA Templated Mineralization. ACS Nano, 2021, 15, 1555-1565.	7.3	29
6	Two birds with one stone: dual grain-boundary and interface passivation enables >22% efficient inverted methylammonium-free perovskite solar cells. Energy and Environmental Science, 2021, 14, 5875-5893.	15.6	180
7	Recent progress in atomic and molecular physics for controlled fusion and astrophysics. Matter and Radiation at Extremes, 2021, 6, 023002.	1.5	3
8	On the Shape-Selected, Ligand-Free Preparation of Hybrid Perovskite (CH3NH3PbBr3) Microcrystals and Their Suitability as Model-System for Single-Crystal Studies of Optoelectronic Properties. Nanomaterials, 2021, 11, 3057.	1.9	3
9	IM30 IDPs form a membrane-protective carpet upon super-complex disassembly. Communications Biology, 2020, 3, 595.	2.0	16
10	Anisotropic carrier diffusion in single MAPbI3 grains correlates to their twin domains. Energy and Environmental Science, 2020, 13, 4168-4177.	15.6	27
11	Grafting Silicone at Room Temperature—a Transparent, Scratch-resistant Nonstick Molecular Coating. Langmuir, 2020, 36, 4416-4431.	1.6	76
12	Slide electrification: charging of surfaces by moving water drops. Soft Matter, 2019, 15, 8667-8679.	1.2	66
13	Removal of Surface Oxygen Vacancies Increases Conductance Through TiO ₂ Thin Films for Perovskite Solar Cells. Journal of Physical Chemistry C, 2019, 123, 13458-13466.	1.5	54
14	Alignment of solid targets under extreme tight focus conditions generated by an ellipsoidal plasma mirror. Matter and Radiation at Extremes, 2019, 4, 024402.	1.5	6
15	Wave-based laser absorption method for high-order transport–hydrodynamic codes. Advances in Computational Mathematics, 2019, 45, 1953-1976.	0.8	3
16	Preface to Special Topic: Extreme High-Field Physics Driven by Lasers. Matter and Radiation at Extremes, 2019, 4, 063002.	1.5	0
17	The application of atomic force microscopy in mineral flotation. Advances in Colloid and Interface Science, 2018, 256, 373-392.	7.0	108
18	Evidence of Tailoring the Interfacial Chemical Composition in Normal Structure Hybrid Organohalide Perovskites by a Self-Assembled Monolayer. ACS Applied Materials & Interfaces, 2018, 10, 5511-5518.	4.0	32

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19	Ion Specificity on Electric Energy Generated by Flowing Water Droplets. Angewandte Chemie - International Edition, 2018, 57, 2091-2095.	7.2	58
20	lon Specificity on Electric Energy Generated by Flowing Water Droplets. Angewandte Chemie, 2018, 130, 2113-2117.	1.6	4
21	Orientation of Ferroelectric Domains and Disappearance upon Heating Methylammonium Lead Triiodide Perovskite from Tetragonal to Cubic Phase. ACS Applied Energy Materials, 2018, 1, 1534-1539.	2.5	49
22	Applications of KPFM-Based Approaches for Surface Potential and Electrochemical Measurements in Liquid. Springer Series in Surface Sciences, 2018, , 391-433.	0.3	3
23	Quantitative comparison of closed-loop and dual harmonic Kelvin probe force microscopy techniques. Review of Scientific Instruments, 2018, 89, 123708.	0.6	13
24	The Interplay of Contact Layers: How the Electron Transport Layer Influences Interfacial Recombination and Hole Extraction in Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2018, 9, 6249-6256.	2.1	68
25	Detaching Microparticles from a Liquid Surface. Physical Review Letters, 2018, 121, 048002.	2.9	27
26	Adaptive Wetting—Adaptation in Wetting. Langmuir, 2018, 34, 11292-11304.	1.6	66
27	Know your full potential: Quantitative Kelvin probe force microscopy on nanoscale electrical devices. Beilstein Journal of Nanotechnology, 2018, 9, 1809-1819.	1.5	47
28	How the formation of interfacial charge causes hysteresis in perovskite solar cells. Energy and Environmental Science, 2018, 11, 2404-2413.	15.6	289
29	Local Time-Dependent Charging in a Perovskite Solar Cell. ACS Applied Materials & Interfaces, 2016, 8, 19402-19409.	4.0	109
30	Ferroelastic Fingerprints in Methylammonium Lead Iodide Perovskite. Journal of Physical Chemistry C, 2016, 120, 5724-5731.	1.5	154
31	Preparing DNA-mimicking multi-line nanocaterpillars <i>via in situ</i> nanoparticlisation of fully conjugated polymers. Polymer Chemistry, 2016, 7, 1422-1428.	1.9	19
32	Humidity-Induced Grain Boundaries in MAPbI ₃ Perovskite Films. Journal of Physical Chemistry C, 2016, 120, 6363-6368.	1.5	103
33	Surface Modification of TiO ₂ Photoanodes with Fluorinated Self-Assembled Monolayers for Highly Efficient Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 25741-25747.	4.0	29
34	Irradiation uniformity at the Laser MegaJoule facility in the context of the shock ignition scheme. High Power Laser Science and Engineering, 2014, 2, .	2.0	23
35	Probing charge screening dynamics and electrochemical processes at the solid–liquid interface with electrochemical force microscopy. Nature Communications, 2014, 5, 3871.	5.8	97
36	Enhanced power conversion efficiency of inverted organic solar cells by using solution processed Sn-doped TiO2 as an electron transport layer. Journal of Materials Chemistry A, 2014, 2, 11426.	5.2	20

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#	Article	IF	CITATIONS
37	Dual harmonic Kelvin probe force microscopy at the graphene–liquid interface. Applied Physics Letters, 2014, 104, .	1.5	50
38	Real-space observation of unbalanced charge distribution inside a perovskite-sensitized solar cell. Nature Communications, 2014, 5, 5001.	5.8	294
39	High viscosity environments: an unexpected route to obtain true atomic resolution with atomic force microscopy. Nanotechnology, 2014, 25, 175701.	1.3	5
40	Electrical characterization of organic solar cell materials based on scanning force microscopy. European Polymer Journal, 2013, 49, 1907-1915.	2.6	46
41	Open loop Kelvin probe force microscopy with single and multi-frequency excitation. Nanotechnology, 2013, 24, 475702.	1.3	63
42	Electrical tip-sample contact in scanning conductive torsion mode. Applied Physics Letters, 2013, 102, 163105.	1.5	6
43	Photoreduction of SERS-Active Metallic Nanostructures on Chemically Patterned Ferroelectric Crystals. ACS Nano, 2012, 6, 7373-7380.	7.3	59
44	Electrical Characterization of Solar Cell Materials Using Scanning Probe Microscopy. Nanoscience and Technology, 2012, , 551-573.	1.5	3
45	Kelvin Probe Force Microscopy in Nonpolar Liquids. Langmuir, 2012, 28, 13892-13899.	1.6	35
46	Investigating morphology and electronic properties of self-assembled hybrid systems for solar cells. Journal of Materials Chemistry, 2011, 21, 7765.	6.7	10
47	Electrodeposition of ZnO nanorods on opaline replica as hierarchically structured systems. Journal of Materials Chemistry, 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. Journal of Physical Chemistry C, 2011, 115, 19994-20001.	1.5	33
49	Thermodynamics of nanosecond nanobubble formation at laser-excited metal nanoparticles. New Journal of Physics, 2011, 13, 043018.	1.2	138
50	Electrical Scanning Probe Microscopy of an Integrated Blocking Layer. Journal of Nanoscience and Nanotechnology, 2010, 10, 6840-6844.	0.9	4
51	Template-Based Preparation of Free-Standing Semiconducting Polymeric Nanorod Arrays on Conductive Substrates. ACS Applied Materials & Interfaces, 2010, 2, 1573-1580.	4.0	23
52	Mapping of Local Conductivity Variations on Fragile Nanopillar Arrays by Scanning Conductive Torsion Mode Microscopy. Nano Letters, 2010, 10, 1194-1197.	4.5	25
53	Light Induced Charging of Polymer Functionalized Nanorods. Nano Letters, 2010, 10, 2812-2816.	4.5	29
54	Characterization of Quantum Dot/Conducting Polymer Hybrid Films and Their Application to Lightâ€Emitting Diodes. Advanced Materials, 2009, 21, 5022-5026.	11.1	90

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55	Electrical Modes in Scanning Probe Microscopy. Macromolecular Rapid Communications, 2009, 30, 1167-1178.	2.0	77
56	Integrated blocking layers for hybrid organic solar cells. Energy and Environmental Science, 2009, 2, 783.	15.6	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 MAPbI3 Perovskite. , 0, , .		0
61	Watching Ions Move: Scanning Probe Microscopy on Perovskite Solar Cells. , 0, , .		Ο