Bernard Wenger

List of Publications by Year
in descending order

52 papers	6,978 citations	126907 33 h-index	182427 51 g-index
53 all docs	53 docs citations	53 times ranked	9307 citing authors

#	Article	IF	Citations
1	Lead-Free Halide Double Perovskites via Heterovalent Substitution of Noble Metals. Journal of Physical Chemistry Letters, 2016, 7, 1254-1259.	4.6	761
2	Cs₂InAgCl₆: A New Lead-Free Halide Double Perovskite with Direct Band Gap. Journal of Physical Chemistry Letters, 2017, 8, 772-778.	4.6	752
3	High Molar Extinction Coefficient Heteroleptic Ruthenium Complexes for Thin Film Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2006, 128, 4146-4154.	13.7	538
4	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. Science, 2020, 369, 96-102.	12.6	461
5	Cubic or Orthorhombic? Revealing the Crystal Structure of Metastable Black-Phase CsPbI₃ by Theory and Experiment. ACS Energy Letters, 2018, 3, 1787-1794.	17.4	455
6	Charge Separation and Efficient Light Energy Conversion in Sensitized Mesoscopic Solar Cells Based on Binary Ionic Liquids. Journal of the American Chemical Society, 2005, 127, 6850-6856.	13.7	383
7	A low viscosity, low boiling point, clean solvent system for the rapid crystallisation of highly specular perovskite films. Energy and Environmental Science, 2017, 10, 145-152.	30.8	319
8	Structured Organicâ€“Inorganic Perovskite toward a Distributed Feedback Laser. Advanced Materials, 2016, 28, 923-929.	21.0	257
9	Rationale for Kinetic Heterogeneity of Ultrafast Light-Induced Electron Transfer from Ru(II) Complex Sensitizers to Nanocrystalline TiO2. Journal of the American Chemical Society, 2005, 127, 12150-12151.	13.7	213
10	Consolidation of the optoelectronic properties of CH3NH3PbBr3 perovskite single crystals. Nature Communications, 2017, 8, 590.	12.8	207
11	Mechanism for rapid growth of organicâ€“inorganic halide perovskite crystals. Nature Communications, 2016, 7, 13303.	12.8	191
12	Impact of Bi³⁺ Heterovalent Doping in Organicâ€“Inorganic Metal Halide Perovskite Crystals. Journal of the American Chemical Society, 2018, 140, 574-577.	13.7	181
13	High irradiance performance of metal halide perovskites for concentrator photovoltaics. Nature Energy, 2018, 3, 855-861.	39.5	180
14	Unveiling the Influence of pH on the Crystallization of Hybrid Perovskites, Delivering Low Voltage Loss Photovoltaics. Joule, 2017, 1, 328-343.	24.0	148
15	Structural and Optical Properties of Cs₂AgBiBr₆ Double Perovskite. ACS Energy Letters, 2019, 4, 299-305.	17.4	146
16	Optoelectronic and spectroscopic characterization of vapour-transport grown Cu₂ZnSnS₄ single crystals. Journal of Materials Chemistry A, 2017, 5, 1192-1200.	10.3	145
17	High Efficiency Composite Metal Oxideâ€Polymer Electroluminescent Devices: A Morphological and Material Based Investigation. Advanced Materials, 2008, 20, 3447-3452.	21.0	143
18	Overcoming Zinc Oxide Interface Instability with a Methylammoniumâ€Free Perovskite for Highâ€Performance Solar Cells. Advanced Functional Materials, 2019, 29, 1900466.	14.9	129

#	Article	IF	Citations
19	Elucidating the long-range charge carrier mobility in metal halide perovskite thin films. Energy and Environmental Science, 2019, 12, 169-176.	30.8	115
20	Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. Energy and Environmental Science, 2019, 12, 3063-3073.	30.8	111
21	Facile Synthesis of Stable and Highly Luminescent Methylammonium Lead Halide Nanocrystals for Efficient Light Emitting Devices. Journal of the American Chemical Society, 2019, 141, 1269-1279.	13.7	108
22	Metal composition influences optoelectronic quality in mixed-metal leadâ€“tin triiodide perovskite solar absorbers. Energy and Environmental Science, 2020, 13, 1776-1787.	30.8	87
23	Mechanically tunable conjugated polymer distributed feedback lasers. Applied Physics Letters, 2010, 97, .	3.3	83
24	Oxidative Passivation of Metal Halide Perovskites. Joule, 2019, 3, 2716-2731.	24.0	81
25	Elucidating the Role of a Tetrafluoroborateâ€Based Ionic Liquid at the nâ€Type Oxide/Perovskite Interface. Advanced Energy Materials, 2020, 10, 1903231.	19.5	81
26	Dopant-Free Planar nâ€“iâ€“p Perovskite Solar Cells with Steady-State Efficiencies Exceeding 18%. ACS Energy Letters, 2017, 2, 622-628.	17.4	73
27	Highly Absorbing Lead-Free Semiconductor Cu₂AgBiI₆ for Photovoltaic Applications from the Quaternary CuIâ€“AgIâ€“BiI₃ Phase Space. Journal of the American Chemical Society, 2021, 143, 3983-3992.	13.7	59
28	Revealing Factors Influencing the Operational Stability of Perovskite Light-Emitting Diodes. ACS Nano, 2020, 14, 8855-8865.	14.6	57
29	Opticallyâ€Pumped Lasing in Hybrid Organicâ€“Inorganic Lightâ€Emitting Diodes. Advanced Functional Materials, 2009, 19, 2130-2136.	14.9	55
30	Charge-Carrier Trapping Dynamics in Bismuth-Doped Thin Films of MAPbBr₃ Perovskite. Journal of Physical Chemistry Letters, 2020, 11, 3681-3688.	4.6	55
31	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. ACS Energy Letters, 2018, 3, 1233-1240.	17.4	54
32	Microsecond Carrier Lifetimes, Controlled p-Doping, and Enhanced Air Stability in Low-Bandgap Metal Halide Perovskites. ACS Energy Letters, 2019, 4, 2301-2307.	17.4	46
33	Dynamics of Photoinduced Interfacial Electron Transfer and Charge Transport in Dye-Sensitized Mesoscopic Semiconductors. Chimia, 2007, 61, 631.	0.6	35
34	Tuning the wavelength of lasing emission in organic semiconducting laser by the orientation of liquid crystalline conjugated polymer. Journal of Applied Physics, 2008, 104, .	2.5	27
35	Bulk recrystallization for efficient mixed-cation mixed-halide perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 25511-25520.	10.3	27
36	Dimethylammonium: An Aâ€Site Cation for Modifying CsPbI₃. Solar Rrl, 2021, 5, .	5.8	25

#	Article	IF	Citations
37	Inexpensive and fast wafer-scale fabrication of nanohole arrays in thin gold films for plasmonics. Nanotechnology, 2010, 21, 205301.	2.6	22
38	Smart Textiles with Biosensing Capabilities. Advances in Science and Technology, 0, , .	0.2	21
39	Visualizing Macroscopic Inhomogeneities in Perovskite Solar Cells. ACS Energy Letters, 2022, 7, 2311-2322.	17.4	20
40	Crystallographic, Optical, and Electronic Properties of the Cs2AgBi1â€"xInxBr6 Double Perovskite: Understanding the Fundamental Photovoltaic Efficiency Challenges. ACS Energy Letters, 2021, 6, 1073-1081.	17.4	19
41	Origin of the Kinetic Heterogeneity of Ultrafast Light-Induced Electron Transfer from Ru(II)-Complex Dyes to Nanocrystalline Semiconducting Particles. Chimia, 2005, 59, 123-125.	0.6	17
42	Nanostructured waveguides for evanescent wave biosensors. Applied Surface Science, 2009, 256, S12-S17.	6.1	12
43	Utilizing Nonpolar Organic Solvents for the Deposition of Metal-Halide Perovskite Films and the Realization of Organic Semiconductor/Perovskite Composite Photovoltaics. ACS Energy Letters, 2022, 7, 1246-1254.	17.4	12
44	Controlling Mesopore Size and Processability of Transparent Enzyme-Loaded Silica Films for Biosensing Applications. ACS Applied Materials & Interfaces, 2015, 7, 2960-2971.	8.0	11
45	Au-labeled antibodies to enhance the sensitivity of a refractometric immunoassay: Detection of cocaine. Biosensors and Bioelectronics, 2012, 34, 94-99.	10.1	9
46	Atomic Layer Deposited Electron Transport Layers in Efficient Organometallic Halide Perovskite Devices. MRS Advances, 2018, 3, 3075-3084.	0.9	8
47	Revealing the Stoichiometric Tolerance of Lead Trihalide Perovskite Thin Films. Chemistry of Materials, 2020, 32, 114-120.	6.7	8
48	A Phosphine Oxide Route to Formamidinium Lead Tribromide Nanoparticles. Chemistry of Materials, 2020, 32, 7172-7180.	6.7	8
49	Transparent and Robust Silica Coatings with Dual Range Porosity for Enzymeâ€Based Optical Biosensing. Advanced Functional Materials, 2017, 27, 1606385.	14.9	7
50	Integrated optical biosensor for in-line monitoring of cell cultures. Biosensors and Bioelectronics, 2010, 26, 1478-1485.	10.1	6
51	Monitoring of cellular immune responses with an optical biosensor: a new tool to assess nanoparticle toxicity. Procedia Chemistry, 2009, 1, 738-741.	0.7	4
52	Electron donor-acceptor distance dependence of the dynamics of light-induced interfacial charge transfer in the dye-sensitization of nanocrystalline oxide semiconductors. , 2006, , .		3