Bernard Wenger

List of Publications by Year
in descending order

52	6,978	126907 33	182427 51
papers	citations	h-index	g-index

53	53	53	9307
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Visualizing Macroscopic Inhomogeneities in Perovskite Solar Cells. ACS Energy Letters, 2022, 7, 2311-2322.	17.4	20
3	Dimethylammonium: An Aâ€Site Cation for Modifying CsPbI₃. Solar Rrl, 2021, 5, .	5.8	25
4	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
5	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
6	Revealing the Stoichiometric Tolerance of Lead Trihalide Perovskite Thin Films. Chemistry of Materials, 2020, 32, 114-120.	6.7	8
7	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
8	A Phosphine Oxide Route to Formamidinium Lead Tribromide Nanoparticles. Chemistry of Materials, 2020, 32, 7172-7180.	6.7	8
9	Revealing Factors Influencing the Operational Stability of Perovskite Light-Emitting Diodes. ACS Nano, 2020, 14, 8855-8865.	14.6	57
10	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. Science, 2020, 369, 96-102.	12.6	461
11	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
12	Charge-Carrier Trapping Dynamics in Bismuth-Doped Thin Films of MAPbBr₃ Perovskite. Journal of Physical Chemistry Letters, 2020, 11, 3681-3688.	4.6	55
13	Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. Energy and Environmental Science, 2019, 12, 3063-3073.	30.8	111
14	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
15	Overcoming Zinc Oxide Interface Instability with a Methylammoniumâ€Free Perovskite for Highâ€Performance Solar Cells. Advanced Functional Materials, 2019, 29, 1900466.	14.9	129
16	Oxidative Passivation of Metal Halide Perovskites. Joule, 2019, 3, 2716-2731.	24.0	81
17	Elucidating the long-range charge carrier mobility in metal halide perovskite thin films. Energy and Environmental Science, 2019, 12, 169-176.	30.8	115
18	Bulk recrystallization for efficient mixed-cation mixed-halide perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 25511-25520.	10.3	27

#	Article	IF	Citations
19	Structural and Optical Properties of Cs₂AgBiBr₆ Double Perovskite. ACS Energy Letters, 2019, 4, 299-305.	17.4	146
20	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
21	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
22	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. ACS Energy Letters, 2018, 3, 1233-1240.	17.4	54
23	Atomic Layer Deposited Electron Transport Layers in Efficient Organometallic Halide Perovskite Devices. MRS Advances, 2018, 3, 3075-3084.	0.9	8
24	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
25	High irradiance performance of metal halide perovskites for concentrator photovoltaics. Nature Energy, 2018, 3, 855-861.	39.5	180
26	Cs₂InAgCl₆: A New Lead-Free Halide Double Perovskite with Direct Band Gap. Journal of Physical Chemistry Letters, 2017, 8, 772-778.	4.6	752
27	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
28	Transparent and Robust Silica Coatings with Dual Range Porosity for Enzymeâ€Based Optical Biosensing. Advanced Functional Materials, 2017, 27, 1606385.	14.9	7
29	Optoelectronic and spectroscopic characterization of vapour-transport grown Cu₂ZnSnS₄ single crystals. Journal of Materials Chemistry A, 2017, 5, 1192-1200.	10.3	145
30	Unveiling the Influence of pH on the Crystallization of Hybrid Perovskites, Delivering Low Voltage Loss Photovoltaics. Joule, 2017, 1, 328-343.	24.0	148
31	Consolidation of the optoelectronic properties of CH3NH3PbBr3 perovskite single crystals. Nature Communications, 2017, 8, 590.	12.8	207
32	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
33	Mechanism for rapid growth of organicâ€“inorganic halide perovskite crystals. Nature Communications, 2016, 7, 13303.	12.8	191
34	Structured Organicâ€“Inorganic Perovskite toward a Distributed Feedback Laser. Advanced Materials, 2016, 28, 923-929.	21.0	257
35	Lead-Free Halide Double Perovskites via Heterovalent Substitution of Noble Metals. Journal of Physical Chemistry Letters, 2016, 7, 1254-1259.	4.6	761
36	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

#	ARTICLE	IF	CITATIONS
37	Au-labeled antibodies to enhance the sensitivity of a refractometric immunoassay: Detection of cocaine. Biosensors and Bioelectronics, 2012, 34, 94-99.	10.1	9
38	Integrated optical biosensor for in-line monitoring of cell cultures. Biosensors and Bioelectronics, 2010, 26, 1478-1485.	10.1	6
39	Mechanically tunable conjugated polymer distributed feedback lasers. Applied Physics Letters, 2010, 97, .	3.3	83
40	Inexpensive and fast wafer-scale fabrication of nanohole arrays in thin gold films for plasmonics. Nanotechnology, 2010, 21, 205301.	2.6	22
41	Opticallyâ€Pumped Lasing in Hybrid Organicâ€"Inorganic Lightâ€Emitting Diodes. Advanced Functional Materials, 2009, 19, 2130-2136.	14.9	55
42	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
43	Nanostructured waveguides for evanescent wave biosensors. Applied Surface Science, 2009, 256, S12-S17.	6.1	12
44	High Efficiency Composite Metal Oxideâ€Polymer Electroluminescent Devices: A Morphological and Material Based Investigation. Advanced Materials, 2008, 20, 3447-3452.	21.0	143
45	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
46	Dynamics of Photoinduced Interfacial Electron Transfer and Charge Transport in Dye-Sensitized Mesoscopic Semiconductors. Chimia, 2007, 61, 631.	0.6	35
47	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
48	Electron donor-acceptor distance dependence of the dynamics of light-induced interfacial charge transfer in the dye-sensitization of nanocrystalline oxide semiconductors. , 2006, , .		3
49	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
50	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
51	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
52	Smart Textiles with Biosensing Capabilities. Advances in Science and Technology, 0, , .	0.2	21