Bernard Wenger

List of Publications by Citations

51 papers	5,169 citations	30 h-index	53 g-index
53 ext. papers	6,022 ext. citations	16.6 avg, IF	5.68 L-index

#	Paper	IF	Citations
51	Lead-Free Halide Double Perovskites via Heterovalent Substitution of Noble Metals. *Journal of Physical Chemistry Letters*, **2016**, 7, 1254-9	6.4	567
50	High molar extinction coefficient heteroleptic ruthenium complexes for thin film dye-sensitized solar cells. *Journal of the American Chemical Society*, **2006**, 128, 4146-54	16.4	512
49	CsInAgCl: A New Lead-Free Halide Double Perovskite with Direct Band Gap. *Journal of Physical Chemistry Letters*, **2017**, 8, 772-778	6.4	494
48	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, 6850-6	16.4	358
47	Cubic or Orthorhombic? Revealing the Crystal Structure of Metastable Black-Phase CsPbI3 by Theory and Experiment. *ACS Energy Letters*, **2018**, 3, 1787-1794	20.1	292
46	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	35.4	253
45	A piperidinium salt stabilizes efficient metal-halide perovskite solar cells. *Science*, **2020**, 369, 96-102	33.3	231
44	Structured Organic-Inorganic Perovskite toward a Distributed Feedback Laser. *Advanced Materials*, **2016**, 28, 923-9	24	209
43	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, 12150-1	16.4	201
42	Consolidation of the optoelectronic properties of CHNHPbBr perovskite single crystals. *Nature Communications*, **2017**, 8, 590	17.4	164
41	Mechanism for rapid growth of organic-inorganic halide perovskite crystals. *Nature Communications* , **2016**, 7, 13303	17.4	150
40	High irradiance performance of metal halide perovskites for concentrator photovoltaics. *Nature Energy*, **2018**, 3, 855-861	62.3	140
39	Impact of Bi Heterovalent Doping in Organic-Inorganic Metal Halide Perovskite Crystals. *Journal of the American Chemical Society*, **2018**, 140, 574-577	16.4	135
38	High Efficiency Composite Metal Oxide-Polymer Electroluminescent Devices: A Morphological and Material Based Investigation. *Advanced Materials*, **2008**, 20, 3447-3452	24	129
37	Optoelectronic and spectroscopic characterization of vapour-transport grown Cu2ZnSnS4 single crystals. *Journal of Materials Chemistry A*, **2017**, 5, 1192-1200	13	123
36	Unveiling the Influence of pH on the Crystallization of Hybrid Perovskites, Delivering Low Voltage Loss Photovoltaics. *Joule*, **2017**, 1, 328-343	27.8	104
35	Overcoming Zinc Oxide Interface Instability with a Methylammonium-Free Perovskite for High-Performance Solar Cells. *Advanced Functional Materials*, **2019**, 29, 1900466	15.6	85

34	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	16.4	83
33	Mechanically tunable conjugated polymer distributed feedback lasers. *Applied Physics Letters*, **2010**, 97, 193303	3.4	80
32	Structural and Optical Properties of Cs2AgBiBr6 Double Perovskite. *ACS Energy Letters*, **2019**, 4, 299-305	20.1	78
31	Interfacial charge-transfer doping of metal halide perovskites for high performance photovoltaics. *Energy and Environmental Science*, **2019**, 12, 3063-3073	35.4	77
30	Elucidating the long-range charge carrier mobility in metal halide perovskite thin films. *Energy and Environmental Science*, **2019**, 12, 169-176	35.4	76
29	Dopant-Free Planar n□i□p Perovskite Solar Cells with Steady-State Efficiencies Exceeding 18%. *ACS Energy Letters*, **2017**, 2, 622-628	20.1	58
28	Oxidative Passivation of Metal Halide Perovskites. *Joule*, **2019**, 3, 2716-2731	27.8	51
27	Metal composition influences optoelectronic quality in mixed-metal lead□tin triiodide perovskite solar absorbers. *Energy and Environmental Science*, **2020**, 13, 1776-1787	35.4	50
26	Optically-Pumped Lasing in Hybrid Organic□Inorganic Light-Emitting Diodes. *Advanced Functional Materials*, **2009**, 19, 2130-2136	15.6	50
25	Elucidating the Role of a Tetrafluoroborate-Based Ionic Liquid at the n-Type Oxide/Perovskite Interface. *Advanced Energy Materials*, **2020**, 10, 1903231	21.8	50
24	Highly Crystalline Methylammonium Lead Tribromide Perovskite Films for Efficient Photovoltaic Devices. *ACS Energy Letters*, **2018**, 3, 1233-1240	20.1	43
23	Microsecond Carrier Lifetimes, Controlled p-Doping, and Enhanced Air Stability in Low-Bandgap Metal Halide Perovskites. *ACS Energy Letters*, **2019**, 4, 2301-2307	20.1	35
22	Dynamics of Photoinduced Interfacial Electron Transfer and Charge Transport in Dye-Sensitized Mesoscopic Semiconductors. *Chimia*, **2007**, 61, 631-634	1.3	33
21	Tuning the wavelength of lasing emission in organic semiconducting laser by the orientation of liquid crystalline conjugated polymer. *Journal of Applied Physics*, **2008**, 104, 033107	2.5	27
20	Charge-Carrier Trapping Dynamics in Bismuth-Doped Thin Films of MAPbBr Perovskite. *Journal of Physical Chemistry Letters*, **2020**, 11, 3681-3688	6.4	27
19	Revealing Factors Influencing the Operational Stability of Perovskite Light-Emitting Diodes. *ACS Nano*, **2020**, 14, 8855-8865	16.7	25
18	Inexpensive and fast wafer-scale fabrication of nanohole arrays in thin gold films for plasmonics. *Nanotechnology*, **2010**, 21, 205301	3.4	21
17	Bulk recrystallization for efficient mixed-cation mixed-halide perovskite solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 25511-25520	13	19

16	Smart Textiles with Biosensing Capabilities. *Advances in Science and Technology*, **2012**, 80, 129-135	0.1	17
15	Highly Absorbing Lead-Free Semiconductor CuAgBiI for Photovoltaic Applications from the Quaternary CuI-AgI-BiI Phase Space. *Journal of the American Chemical Society*, **2021**, 143, 3983-3992	16.4	16
14	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	1.3	15
13	Nanostructured waveguides for evanescent wave biosensors. *Applied Surface Science*, **2009**, 256, S12-S17	6.7	12
12	Controlling mesopore size and processability of transparent enzyme-loaded silica films for biosensing applications. *ACS Applied Materials & Interfaces*, **2015**, 7, 2960-71	9.5	11
11	Dimethylammonium: An A-Site Cation for Modifying CsPbI 3. *Solar Rrl*, **2021**, 5, 2000599	7.1	10
10	Crystallographic, Optical, and Electronic Properties of the Cs2AgBi1⊠InxBr6 Double Perovskite: Understanding the Fundamental Photovoltaic Efficiency Challenges. *ACS Energy Letters*, **2021**, 6, 1073-1081	20.1	10
9	Au-labeled antibodies to enhance the sensitivity of a refractometric immunoassay: detection of cocaine. *Biosensors and Bioelectronics*, **2012**, 34, 94-9	11.8	8
8	Integrated optical biosensor for in-line monitoring of cell cultures. *Biosensors and Bioelectronics*, **2010**, 26, 1478-85	11.8	6
7	A Phosphine Oxide Route to Formamidinium Lead Tribromide Nanoparticles. *Chemistry of Materials* , **2020**, 32, 7172-7180	9.6	6
6	Atomic Layer Deposited Electron Transport Layers in Efficient Organometallic Halide Perovskite Devices. *MRS Advances*, **2018**, 3, 3075-3084	0.7	6
5	Transparent and Robust Silica Coatings with Dual Range Porosity for Enzyme-Based Optical Biosensing. *Advanced Functional Materials*, **2017**, 27, 1606385	15.6	4
4	Monitoring of cellular immune responses with an optical biosensor: a new tool to assess nanoparticle toxicity. *Procedia Chemistry*, **2009**, 1, 738-741		4
3	Revealing the Stoichiometric Tolerance of Lead Trihalide Perovskite Thin Films. *Chemistry of Materials*, **2020**, 32, 114-120	9.6	4
2	Electron donor-acceptor distance dependence of the dynamics of light-induced interfacial charge transfer in the dye-sensitization of nanocrystalline oxide semiconductors **2006**,		3
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	20.1	1