Luis K Ono

List of Publications by Year
in descending order

152 papers	18,337 citations	13099 68 h-index	12597 132 g-index
155 all docs	155 docs citations	155 times ranked	17742 citing authors

#	Article	IF	Citations
1	Lithium-ion batteries: outlook on present, future, and hybridized technologies. Journal of Materials Chemistry A, 2019, 7, 2942-2964.	10.3	1,266
2	Thermodynamically stabilized Î²-CsPbI ₃ â€“based perovskite solar cells with efficiencies >18%. Science, 2019, 365, 591-595.	12.6	963
3	Silver Iodide Formation in Methyl Ammonium Lead Iodide Perovskite Solar Cells with Silver Top Electrodes. Advanced Materials Interfaces, 2015, 2, 1500195.	3.7	646
4	Thermal degradation of CH₃NH₃PbI₃ perovskite into NH₃ and CH₃I gases observed by coupled thermogravimetryâ€“mass spectrometry analysis. Energy and Environmental Science, 2016, 9, 3406-3410.	30.8	616
5	Accelerated degradation of methylammonium lead iodide perovskites induced by exposure to iodine vapour. Nature Energy, 2017, 2, .	39.5	491
6	Progress on Perovskite Materials and Solar Cells with Mixed Cations and Halide Anions. ACS Applied Materials & Interfaces, 2017, 9, 30197-30246.	8.0	453
7	Photodecomposition and thermal decomposition in methylammonium halide lead perovskites and inferred design principles to increase photovoltaic device stability. Journal of Materials Chemistry A, 2018, 6, 9604-9612.	10.3	437
8	Highly stable and efficient all-inorganic lead-free perovskite solar cells with native-oxide passivation. Nature Communications, 2019, 10, 16.	12.8	430
9	Effects of annealing on properties of ZnO thin films prepared by electrochemical deposition in chloride medium. Applied Surface Science, 2010, 256, 1895-1907.	6.1	418
10	Shape-Dependent Catalytic Properties of Pt Nanoparticles. Journal of the American Chemical Society, 2010, 132, 15714-15719.	13.7	387
11	Air-Exposure Induced Dopant Redistribution and Energy Level Shifts in Spin-Coated Spiro-MeOTAD Films. Chemistry of Materials, 2015, 27, 562-569.	6.7	357
12	Lead halideâ€“templated crystallization of methylamine-free perovskite for efficient photovoltaic modules. Science, 2021, 372, 1327-1332.	12.6	351
13	Reducing Detrimental Defects for Highâ€Performance Metal Halide Perovskite Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 6676-6698.	13.8	334
14	Reduction of lead leakage from damaged lead halide perovskite solar modules using self-healing polymer-based encapsulation. Nature Energy, 2019, 4, 585-593.	39.5	327
15	Recent Advances in Spiroâ€MeOTAD Hole Transport Material and Its Applications in Organicâ€“Inorganic Halide Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1700623.	3.7	316
16	High performance perovskite solar cells by hybrid chemical vapor deposition. Journal of Materials Chemistry A, 2014, 2, 18742-18745.	10.3	284
17	A holistic approach to interface stabilization for efficient perovskite solar modules with over 2,000-hour operational stability. Nature Energy, 2020, 5, 596-604.	39.5	274
18	Enhancing Optical, Electronic, Crystalline, and Morphological Properties of Cesium Lead Halide by Mn Substitution forÂ Highâ€Stability Allâ€Inorganic Perovskite Solar Cells withÂ Carbon Electrodes. Advanced Energy Materials, 2018, 8, 1800504.	19.5	272

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19	Advances and challenges to the commercialization of organicâ€"inorganic halide perovskite solar cell technology. Materials Today Energy, 2018, 7, 169-189.	4.7	231
20	Synthesis and characterization of ZnO nanowires for nanosensor applications. Materials Research Bulletin, 2010, 45, 1026-1032.	5.2	227
21	Synthesis and Characterization of Ag- or Sb-Doped ZnO Nanorods by a Facile Hydrothermal Route. Journal of Physical Chemistry C, 2010, 114, 12401-12408.	3.1	227
22	Synthesis and characterization of Cu-doped ZnO one-dimensional structures for miniaturized sensor applications with faster response. Sensors and Actuators A: Physical, 2013, 189, 399-408.	4.1	227
23	Fabrication of semi-transparent perovskite films with centimeter-scale superior uniformity by the hybrid deposition method. Energy and Environmental Science, 2014, 7, 3989-3993.	30.8	213
24	Organometal halide perovskite thin films and solar cells by vapor deposition. Journal of Materials Chemistry A, 2016, 4, 6693-6713.	10.3	210
25	Highly Efficient Perovskite Solar Cells Enabled by Multiple Ligand Passivation. Advanced Energy Materials, 2020, 10, 1903696.	19.5	205
26	Role of the Dopants on the Morphological and Transport Properties of Spiro-MeOTAD Hole Transport Layer. Chemistry of Materials, 2016, 28, 5702-5709.	6.7	194
27	Flexible and stable high-energy lithium-sulfur full batteries with only 100% oversized lithium. Nature Communications, 2018, 9, 4480.	12.8	193
28	Progress toward Stable Lead Halide Perovskite Solar Cells. Joule, 2018, 2, 1961-1990.	24.0	181
29	Surface and Interface Aspects of Organometal Halide Perovskite Materials and Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 4764-4794.	4.6	177
30	Formation and Thermal Stability of Platinum Oxides on Size-Selected Platinum Nanoparticles: Support Effects. Journal of Physical Chemistry C, 2010, 114, 22119-22133.	3.1	175
31	Phase transition induced recrystallization and low surface potential barrier leading to 10.91%-efficient CsPbBr3 perovskite solar cells. Nano Energy, 2019, 65, 104015.	16.0	170
32	Slot-die coating large-area formamidinium-cesium perovskite film for efficient and stable parallel solar module. Science Advances, 2021, 7, .	10.3	165
33	Thermal degradation of formamidinium based lead halide perovskites into <i>sym</i>-triazine and hydrogen cyanide observed by coupled thermogravimetry-mass spectrometry analysis. Journal of Materials Chemistry A, 2019, 7, 16912-16919.	10.3	163
34	Scalable Fabrication of Metal Halide Perovskite Solar Cells and Modules. ACS Energy Letters, 2019, 4, 2147-2167.	17.4	161
35	Highly Efficient and Stable Perovskite Solar Cells via Modification of Energy Levels at the Perovskite/Carbon Electrode Interface. Advanced Materials, 2019, 31, e1804284.	21.0	161
36	Combination of Hybrid CVD and Cation Exchange for Upscaling Csâ€Substituted Mixed Cation Perovskite Solar Cells with High Efficiency and Stability. Advanced Functional Materials, 2018, 28, 1703835.	14.9	158

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37	Formation and Thermal Stability of Au₂O₃ on Gold Nanoparticles:â€‰ Size and Support Effects. Journal of Physical Chemistry C, 2008, 112, 4676-4686.	3.1	155
38	Real-Space Imaging of the Atomic Structure of Organicâ€“Inorganic Perovskite. Journal of the American Chemical Society, 2015, 137, 16049-16054.	13.7	155
39	Highly sensitive and selective hydrogen single-nanowire nanosensor. Sensors and Actuators B: Chemical, 2012, 173, 772-780.	7.8	149
40	Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. Science Advances, 2017, 3, e1701186.	10.3	146
41	Post-annealing of MAPbI₃ perovskite films with methylamine for efficient perovskite solar cells. Materials Horizons, 2016, 3, 548-555.	12.2	141
42	Improved Efficiency and Stability of Perovskite Solar Cells Induced by Cï£¾O Functionalized Hydrophobic Ammoniumâ€Based Additives. Advanced Materials, 2018, 30, 1703670.	21.0	132
43	Smooth perovskite thin films and efficient perovskite solar cells prepared by the hybrid deposition method. Journal of Materials Chemistry A, 2015, 3, 14631-14641.	10.3	126
44	Moisture and Oxygen Enhance Conductivity of LiTFSIâ€Doped Spiroâ€MeOTAD Hole Transport Layer in Perovskite Solar Cells. Advanced Materials Interfaces, 2016, 3, 1600117.	3.7	123
45	Pinhole-free hole transport layers significantly improve the stability of MAPbI₃-based perovskite solar cells under operating conditions. Journal of Materials Chemistry A, 2015, 3, 15451-15456.	10.3	122
46	Temperature-dependent hysteresis effects in perovskite-based solar cells. Journal of Materials Chemistry A, 2015, 3, 9074-9080.	10.3	121
47	Substantial improvement of perovskite solar cells stability by pinhole-free hole transport layer with doping engineering. Scientific Reports, 2015, 5, 9863.	3.3	119
48	Scalable Fabrication of Stable High Efficiency Perovskite Solar Cells and Modules Utilizing Room Temperature Sputtered SnO₂ Electron Transport Layer. Advanced Functional Materials, 2019, 29, 1806779.	14.9	118
49	Unraveling the Impact of Halide Mixing on Perovskite Stability. Journal of the American Chemical Society, 2019, 141, 3515-3523.	13.7	116
50	Rapid perovskite formation by CH₃NH₂ gas-induced intercalation and reaction of PbI₂. Journal of Materials Chemistry A, 2016, 4, 2494-2500.	10.3	115
51	Oxygen Chemisorption, Formation, and Thermal Stability of Pt Oxides on Pt Nanoparticles Supported on SiO₂/Si(001): Size Effects. Journal of Physical Chemistry C, 2011, 115, 16856-16866.	3.1	114
52	Methylammonium Lead Bromide Perovskite Light-Emitting Diodes by Chemical Vapor Deposition. Journal of Physical Chemistry Letters, 2017, 8, 3193-3198.	4.6	113
53	Hybrid chemical vapor deposition enables scalable and stable Cs-FA mixed cation perovskite solar modules with a designated area of 91.8 cm² approaching 10% efficiency. Journal of Materials Chemistry A, 2019, 7, 6920-6929.	10.3	112
54	Gas-solid reaction based over one-micrometer thick stable perovskite films for efficient solar cells and modules. Nature Communications, 2018, 9, 3880.	12.8	109

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55	Long-life lithium-sulfur batteries with high areal capacity based on coaxial CNTs@TiN-TiO2 sponge. Nature Communications, 2021, 12, 4738.	12.8	109
56	Evolution of the Structure and Chemical State of Pd Nanoparticles during the in Situ Catalytic Reduction of NO with H₂. Journal of the American Chemical Society, 2011, 133, 13455-13464.	13.7	107
57	Perovskite Solar Cellsâ€"Towards Commercialization. ACS Energy Letters, 2017, 2, 1749-1751.	17.4	107
58	In situ gas-phase catalytic properties of TiC-supported size-selected gold nanoparticles synthesized by diblock copolymer encapsulation. Surface Science, 2006, 600, 5041-5050.	1.9	103
59	Interfacial Modification of Perovskite Solar Cells Using an Ultrathin MAI Layer Leads to Enhanced Energy Level Alignment, Efficiencies, and Reproducibility. Journal of Physical Chemistry Letters, 2017, 8, 3947-3953.	4.6	101
60	Improved SnO₂ Electron Transport Layers Solutionâ€Deposited at Near Room Temperature for Rigid or Flexible Perovskite Solar Cells with High Efficiencies. Advanced Energy Materials, 2019, 9, 1900834.	19.5	100
61	Effect of interparticle interaction on the low temperature oxidation of CO over size-selected Au nanocatalysts supported on ultrathin TiC films. Catalysis Letters, 2007, 113, 86-94.	2.6	98
62	Air-Exposure-Induced Gas-Molecule Incorporation into Spiro-MeOTAD Films. Journal of Physical Chemistry Letters, 2014, 5, 1374-1379.	4.6	96
63	Modulating crystal growth of formamidiniumâ€"caesium perovskites for over 200 cm2 photovoltaic sub-modules. Nature Energy, 2022, 7, 528-536.	39.5	89
64	Progress of Surface Science Studies on ABX₃â€Based Metal Halide Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1902726.	19.5	87
65	Carbon-Based Electrode Engineering Boosts the Efficiency of All Low-Temperature-Processed Perovskite Solar Cells. ACS Energy Letters, 2019, 4, 2032-2039.	17.4	79
66	Interface engineering strategies towards Cs₂AgBiBr₆single-crystalline photodetectors with good Ohmic contact behaviours. Journal of Materials Chemistry C, 2020, 8, 276-284.	5.5	78
67	Fully Solutionâ€Processed TCOâ€Free Semitransparent Perovskite Solar Cells for Tandem and Flexible Applications. Advanced Energy Materials, 2018, 8, 1701569.	19.5	77
68	Electronic properties and charge transfer phenomena in Pt nanoparticles on Î³-Al2O3: size, shape, support, and adsorbate effects. Physical Chemistry Chemical Physics, 2012, 14, 11766.	2.8	76
69	Scalable Fabrication of >90 cm² Perovskite Solar Modules with >1000 h Operational Stability Based on the Intermediate Phase Strategy. Advanced Energy Materials, 2021, 11, 2003712.	19.5	76
70	Engineering Interface Structure to Improve Efficiency and Stability of Organometal Halide Perovskite Solar Cells. Journal of Physical Chemistry B, 2018, 122, 511-520.	2.6	68
71	Negligibleâ€Pbâ€Waste and Upscalable Perovskite Deposition Technology for Highâ€Operationalâ€Stability Perovskite Solar Modules. Advanced Energy Materials, 2019, 9, 1803047.	19.5	68
72	How far are we from attaining 10-year lifetime for metal halide perovskite solar cells?. Materials Science and Engineering Reports, 2020, 140, 100545.	31.8	67

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73	Trends in the Binding Strength of Surface Species on Nanoparticles: How Does the Adsorption Energy Scale with the Particle Size?. Angewandte Chemie - International Edition, 2013, 52, 5175-5179.	13.8	66
74	Recent Progress of Allâ€Bromide Inorganic Perovskite Solar Cells. Energy Technology, 2020, 8, 1900961.	3.8	66
75	Additives in metal halide perovskite films and their applications in solar cells. Journal of Energy Chemistry, 2020, 46, 215-228.	12.9	64
76	Stability of Platinum Nanoparticles Supported on SiO₂/Si(111): A High-Pressure X-ray Photoelectron Spectroscopy Study. ACS Nano, 2012, 6, 10743-10749.	14.6	61
77	In situ coarsening study of inverse micelle-prepared Pt nanoparticles supported on Î³-Al2O3: pretreatment and environmental effects. Physical Chemistry Chemical Physics, 2012, 14, 11457.	2.8	60
78	Lowâ€Cost Alternative Highâ€Performance Holeâ€Transport Material for Perovskite Solar Cells and Its Comparative Study with Conventional SPIROâ€OMeTAD. Advanced Electronic Materials, 2017, 3, 1700139.	5.1	60
79	Scanning Probe Microscopy Applied to Organicâ€"Inorganic Halide Perovskite Materials and Solar Cells. Small Methods, 2018, 2, 1700295.	8.6	57
80	Research progress on organicâ€"inorganic halide perovskite materials and solar cells. Journal Physics D: Applied Physics, 2018, 51, 093001.	2.8	56
81	Surface Defect Dynamics in Organicâ€"Inorganic Hybrid Perovskites: From Mechanism to Interfacial Properties. ACS Nano, 2019, 13, 12127-12136.	14.6	56
82	Degradation Mechanism and Relative Stability of Methylammonium Halide Based Perovskites Analyzed on the Basis of Acidâ€"Base Theory. ACS Applied Materials & Interfaces, 2019, 11, 12586-12593.	8.0	55
83	Structure of Stoichiometric and Oxygen-Rich Ultrathin FeO(111) Films Grown on Pd(111). Journal of Physical Chemistry C, 2013, 117, 15155-15163.	3.1	52
84	Thermodynamic properties of Pt nanoparticles: Size, shape, support, and adsorbate effects. Physical Review B, 2011, 84, .	3.2	50
85	The presence of CH3NH2 neutral species in organometal halide perovskite films. Applied Physics Letters, 2016, 108, .	3.3	50
86	Two-Dimensional Dionâ€"Jacobson Structure Perovskites for Efficient Sky-Blue Light-Emitting Diodes. ACS Energy Letters, 2021, 6, 908-914.	17.4	49
87	Anomalous lattice dynamics and thermal properties of supported size- and shape-selected Pt nanoparticles. Physical Review B, 2010, 82, .	3.2	47
88	Application of Methylamine Gas in Fabricating Organicâ€"Inorganic Hybrid Perovskite Solar Cells. Energy Technology, 2017, 5, 1750-1761.	3.8	46
89	Atomic-scale view of stability and degradation of single-crystal MAPbBr₃ surfaces. Journal of Materials Chemistry A, 2019, 7, 20760-20766.	10.3	46
90	Structure, Chemical Composition, And Reactivity Correlations during the In Situ Oxidation of 2-Propanol. Journal of the American Chemical Society, 2011, 133, 6728-6735.	13.7	44

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91	Correlating Catalytic Methanol Oxidation with the Structure and Oxidation State of Size-Selected Pt Nanoparticles. ACS Catalysis, 2013, 3, 1460-1468.	11.2	44
92	Thermal Stability and Segregation Processes in Self-Assembled Size-Selected AuxFe1-x Nanoparticles Deposited on TiO2(110): Composition Effects. Journal of Physical Chemistry C, 2009, 113, 1433-1446.	3.1	43
93	Engineering Green-to-Blue Emitting CsPbBr₃ Quantum-Dot Films with Efficient Ligand Passivation. ACS Energy Letters, 2019, 4, 2731-2738.	17.4	43
94	Heterogeneous FASnI3 Absorber with Enhanced Electric Field for High-Performance Lead-Free Perovskite Solar Cells. Nano-Micro Letters, 2022, 14, 99.	27.0	43
95	Local investigation of the electronic properties of size-selected Au nanoparticles by scanning tunneling spectroscopy. Applied Physics Letters, 2006, 89, 043101.	3.3	42
96	Role and Evolution of Nanoparticle Structure and Chemical State during the Oxidation of NO over Size- and Shape-Controlled Pt/Î³-Al₂O₃ Catalysts under Operando Conditions. ACS Catalysis, 2014, 4, 1875-1884.	11.2	42
97	Removal of residual compositions by powder engineering for high efficiency formamidinium-based perovskite solar cells with operation lifetime over 2000Âh. Nano Energy, 2021, 87, 106152.	16.0	41
98	Up-Scalable Fabrication of SnO2 with Multifunctional Interface for High Performance Perovskite Solar Modules. Nano-Micro Letters, 2021, 13, 155.	27.0	40
99	Shape-Dependent Catalytic Oxidation of 2-Butanol over Pt Nanoparticles Supported on Î³-Al₂O₃. ACS Catalysis, 2014, 4, 109-115.	11.2	39
100	Narrow-Band Violet-Light-Emitting Diodes Based on Stable Cesium Lead Chloride Perovskite Nanocrystals. ACS Energy Letters, 2021, 6, 3545-3554.	17.4	39
101	Efficient Anti-solvent-free Spin-Coated and Printed Sn-Perovskite Solar Cells with Crystal-Based Precursor Solutions. Matter, 2020, 2, 167-180.	10.0	38
102	Comparative study of hydrothermal treatment and thermal annealing effects on the properties of electrodeposited micro-columnar ZnO thin films. Thin Solid Films, 2011, 519, 7738-7749.	1.8	37
103	Unraveling the Edge Structures of Platinum(111)-Supported Ultrathin FeO Islands: The Influence of Oxidation State. ACS Nano, 2015, 9, 573-583.	14.6	37
104	Transamidation of dimethylformamide during alkylammonium lead triiodide film formation for perovskite solar cells. Journal of Materials Research, 2017, 32, 45-55.	2.6	37
105	Spin-Coated Crystalline Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. Journal of Physical Chemistry Letters, 2018, 9, 1318-1323.	4.6	37
106	Transition metal speciation as a degradation mechanism with the formation of a solid-electrolyte interphase (SEI) in Ni-rich transition metal oxide cathodes. Journal of Materials Chemistry A, 2018, 6, 14449-14463.	10.3	37
107	Rapid hybrid chemical vapor deposition for efficient and hysteresis-free perovskite solar modules with an operation lifetime exceeding 800 hours. Journal of Materials Chemistry A, 2020, 8, 23404-23412.	10.3	34
108	CsPbBrxI3-x thin films with multiple ammonium ligands for low turn-on pure-red perovskite light-emitting diodes. Nano Research, 2021, 14, 191-197.	10.4	34

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109	Atomic-scale insight into the enhanced surface stability of methylammonium lead iodide perovskite by controlled deposition of lead chloride. Energy and Environmental Science, 2021, 14, 4541-4554.	30.8	31
110	Size-dependent evolution of the atomic vibrational density of states and thermodynamic properties of isolated Fe nanoparticles. Physical Review B, 2012, 86, .	3.2	30
111	Inverse Growth of Large-Grain-Size and Stable Inorganic Perovskite Micronanowire Photodetectors. ACS Applied Materials & Interfaces, 2020, 12, 14185-14194.	8.0	30
112	Spectral Stable Blue-Light-Emitting Diodes via Asymmetric Organic Diamine Based Dionâ€"Jacobson Perovskites. Journal of the American Chemical Society, 2021, 143, 19711-19718.	13.7	29
113	Strong coupled-channel effects in the barrier distributions of 16,18O+58Ni. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 527, 187-192.	4.1	28
114	Nano-Gold Diggers: Au-Assisted SiO₂-Decomposition and Desorption in Supported Nanocatalysts. ACS Nano, 2013, 7, 10327-10334.	14.6	28
115	In-situ passivation perovskite targeting efficient light-emitting diodes via spontaneously formed silica network. Nano Energy, 2020, 78, 105134.	16.0	28
116	Benchmarking Chemical Stability of Arbitrarily Mixed 3D Hybrid Halide Perovskites for Solar Cell Applications. Small Methods, 2018, 2, 1800242.	8.6	26
117	Significant THz absorption in CH3NH2 molecular defect-incorporated organic-inorganic hybrid perovskite thin film. Scientific Reports, 2019, 9, 5811.	3.3	26
118	Photon Upconverting Solid Films with Improved Efficiency for Endowing Perovskite Solar Cells with Nearâ€Infrared Sensitivity. ChemPhotoChem, 2020, 4, 5271-5278.	3.0	26
119	2D Derivative Phase Induced Growth of 3D All Inorganic Perovskite Microâ€"Nanowire Array Based Photodetectors. Advanced Functional Materials, 2020, 30, 2002526.	14.9	26
120	Organic additive engineering toward efficient perovskite lightâ€emitting diodes. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 1095-1108.	17.3	26
121	Imaging of the Atomic Structure of All-Inorganic Halide Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 818-823.	4.6	26
122	Structure and phonon density of states of supported size-selected F57eAu nanoclusters: A nuclear resonant inelastic x-ray scattering study. Applied Physics Letters, 2009, 95, 143103.	3.3	25
123	High-throughput surface preparation for flexible slot die coated perovskite solar cells. Organic Electronics, 2018, 54, 72-79.	2.6	24
124	The influence of secondary solvents on the morphology of a spiro-MeOTAD hole transport layer for lead halide perovskite solar cells. Journal Physics D: Applied Physics, 2018, 51, 294001.	2.8	23
125	Phonon density of states of self-assembled isolated Fe-rich Fe-Pt alloy nanoclusters. Physical Review B, 2009, 80, .	3.2	22
126	Near-barrier quasielastic scattering as a sensitive tool to derive nuclear matter diffuseness. Physical Review C, 2011, 84, .	2.9	22

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127	Size Effects on the Desorption of O₂ from Au₂O₃/Au⁰ Nanoparticles Supported on SiO₂: A TPD Study. Journal of Physical Chemistry C, 2008, 112, 18543-18550.	3.1	20
128	Interfacial Flat-Lying Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 22513-22519.	8.0	18
129	Elucidating the Mechanism Involved in the Performance Improvement of Lithiumâ€•ion Transition Metal Oxide Battery by Conducting Polymer. Advanced Materials Interfaces, 2019, 6, 1801785.	3.7	18
130	Phase Aggregation Suppression of Homogeneous Perovskites Processed in Ambient Condition toward Efficient Lightâ€Emitting Diodes. Advanced Functional Materials, 2021, 31, 2103399.	14.9	18
131	In Situ Study of CO Oxidation on HOPGâ€Supported Pt Nanoparticles. ChemPhysChem, 2013, 14, 1553-1557.	2.1	16
132	Stacked-graphene layers as engineered solid-electrolyte interphase (SEI) grown by chemical vapour deposition for lithium-ion batteries. Carbon, 2018, 132, 678-690.	10.3	16
133	Verringerung schÃdlicher Defekte fÃ¼r leistungsstarke Metallhalogenidâ€Perowskitâ€Solarzellen. Angewandte Chemie, 2020, 132, 6740-6764.	2.0	16
134	Surface Termination-Dependent Nanotribological Properties of Single-Crystal MAPbBr₃ Surfaces. Journal of Physical Chemistry C, 2020, 124, 1484-1491.	3.1	15
135	Comparison of Thermal Annealing <i>versus</i> Hydrothermal Treatment Effects on the Detection Performances of ZnO Nanowires. ACS Applied Materials & Interfaces, 2021, 13, 10537-10552.	8.0	14
136	The Impact of Atmosphere on Energetics of Lead Halide Perovskites. Advanced Energy Materials, 2020, 10, 2000908.	19.5	12
137	Quasi-elastic barrier distribution of the 16,18O+92Mo. Nuclear Physics A, 2003, 725, 60-68.	1.5	10
138	Excitation wavelength independent sensitized Er3+ concentration in as-deposited and low temperature annealed Si-rich SiO2 films. Applied Physics Letters, 2009, 95, .	3.3	8
139	Atomic Scale Investigation of the CuPcâ€"MAPbX₃ Interface and the Effect of Non-Stoichiometric Perovskite Films on Interfacial Structures. ACS Nano, 2021, 15, 14813-14821.	14.6	8
140	Perovskite Solar Cells: Silver Iodide Formation in Methyl Ammonium Lead Iodide Perovskite Solar Cells with Silver Top Electrodes (Adv. Mater. Interfaces 13/2015). Advanced Materials Interfaces, 2015, 2, .	3.7	7
141	â€œHeat Waveâ€•of Metal Halide Perovskite Solar Cells Continues in Phoenix. ACS Energy Letters, 2018, 3, 1898-1903.	17.4	5
142	Largeâ€Area Perovskite Solar Modules: Combination of Hybrid CVD and Cation Exchange for Upscaling Csâ€Substituted Mixed Cation Perovskite Solar Cells with High Efficiency and Stability (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	13.9	4
143	Reply to â€œComment on â€˜Formation and Thermal Stability of Au2O3 on Gold Nanoparticles: Size and Support EffectsÊ¼â€• Journal of Physical Chemistry C, 2008, 112, 16723-16724.	3.1	3
144	[Paper] p-Doping of Squaraine with F4-TCNQ by Solution Processing. ITE Transactions on Media Technology and Applications, 2015, 3, 133-142.	0.5	3

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145	Photovoltaics: Recent Advances in Spiroâ€MeOTAD Hole Transport Material and Its Applications in Organicâ€“Inorganic Halide Perovskite Solar Cells (Adv. Mater. Interfaces 1/2018). Advanced Materials Interfaces, 2018, 5, 1870003.	3.7	3
146	A solidâ€“liquid hybrid electrolyte for lithium ion batteries enabled by a single-body polymer/indium tin oxide architecture. Journal Physics D: Applied Physics, 2021, 54, 475501.	2.8	3
147	Atomic Level Insights into Metal Halide Perovskite Materials by Scanning Tunneling Microscopy and Spectroscopy. Angewandte Chemie - International Edition, 2022, 61, .	13.8	3
148	From film to ring: Quasi-circular inorganic lead halide perovskite grain induced growth of uniform lead silicate glass ring structure. Applied Physics Letters, 2022, 120, .	3.3	1
149	Understanding the nucleation and growth of the degenerated surface structure of the layered transition metal oxide cathodes for lithium-ion batteries by operando Raman spectroscopy. Journal of Electroanalytical Chemistry, 2022, 915, 116340.	3.8	1
150	Influences of Spiro-MeOTAD Hole Transport Layer on the Long-term Stabilities of Perovskite-based Solar Cells. , 2019, , .		0
151	Atomic level insights intoÂmetal halide perovskiteÂmaterials by scanning tunneling microscopy and spectroscopy. Angewandte Chemie, 2022, 134, e202112352.	2.0	0
152	Up-Scaling of Organic-Inorganic Hybrid Perovskite Solar Cells and Modules. , 0, , .		0