

# Jooho Moon

## List of Publications by Year in descending order

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279  
papers

17,922  
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10373

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298  
docs citations

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times ranked

19009  
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of Colloidal Particle Deposit Patterns within Picoliter Droplets Ejected by Ink-Jet Printing. Langmuir, 2006, 22, 3506-3513.	1.6	656
2	Influence of Fluid Physical Properties on Ink-Jet Printability. Langmuir, 2009, 25, 2629-2635.	1.6	591
3	Synthesis and size control of monodisperse copper nanoparticles by polyol method. Journal of Colloid and Interface Science, 2007, 311, 417-424.	5.0	544
4	Role of Gallium Doping in Dramatically Lowering Amorphous Oxide Processing Temperatures for Solution-Derived Indium Zinc Oxide Thin-Film Transistors. Advanced Materials, 2010, 22, 1346-1350.	11.1	493
5	Direct writing of copper conductive patterns by ink-jet printing. Thin Solid Films, 2007, 515, 7706-7711.	0.8	479
6	Controlling the Thickness of the Surface Oxide Layer on Cu Nanoparticles for the Fabrication of Conductive Structures by Ink-Jet Printing. Advanced Functional Materials, 2008, 18, 679-686.	7.8	459
7	Highly Transparent Low Resistance ZnO/Ag Nanowire/ZnO Composite Electrode for Thin Film Solar Cells. ACS Nano, 2013, 7, 1081-1091.	7.3	430
8	Strategies for enhancing the photocurrent, photovoltage, and stability of photoelectrodes for photoelectrochemical water splitting. Chemical Society Reviews, 2019, 48, 4979-5015.	18.7	429
9	Synthesis of silver nanoparticles using the polyol process and the influence of precursor injection. Nanotechnology, 2006, 17, 4019-4024.	1.3	316
10	Direct writing of silver conductive patterns: Improvement of film morphology and conductance by controlling solvent compositions. Applied Physics Letters, 2006, 89, 264101.	1.5	286
11	Homologous CoP/NiCoP Heterostructure on N-Doped Carbon for Highly Efficient and pH-Universal Hydrogen Evolution Electrocatalysis. Advanced Functional Materials, 2019, 29, 1807976.	7.8	278
12	A new class of chiral semiconductors: chiral-organic-molecule-incorporating organic-inorganic hybrid perovskites. Materials Horizons, 2017, 4, 851-856.	6.4	269
13	Highly Conductive Ink Jet Printed Films of Nanosilver Particles for Printable Electronics. Electrochemical and Solid-State Letters, 2005, 8, J30.	2.2	257
14	A non-toxic, solution-processed, earth abundant absorbing layer for thin-film solar cells. Energy and Environmental Science, 2012, 5, 5340-5345.	15.6	229
15	Preparation of Ag/SiO <sub>2</sub> Nanosize Composites by a Reverse Micelle and Sol-Gel Technique. Langmuir, 1999, 15, 4328-4334.	1.6	223
16	Low-temperature, solution-processed metal oxide thin film transistors. Journal of Materials Chemistry, 2012, 22, 1243-1250.	6.7	202
17	All-Solution-Processed Indium-Free Transparent Composite Electrodes based on Ag Nanowire and Metal Oxide for Thin-Film Solar Cells. Advanced Functional Materials, 2014, 24, 2462-2471.	7.8	176
18	Ink-Jet Printing of Cu-Ag-Based Highly Conductive Tracks on a Transparent Substrate. Langmuir, 2009, 25, 429-433.	1.6	168

#	ARTICLE	IF	CITATIONS
19	Fully Flexible Solution-Deposited ZnO Thin-Film Transistors. <i>Advanced Materials</i> , 2010, 22, 4308-4312.	11.1	166
20	High-performance low-temperature solution-processable ZnO thin film transistors by microwave-assisted annealing. <i>Journal of Materials Chemistry</i> , 2011, 21, 1102-1108.	6.7	163
21	Solution-Processed Zinc Tin Oxide Semiconductor for Thin-Film Transistors. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11082-11085.	1.5	160
22	Direct nanoprinting by liquid-bridge-mediated nanotransfer moulding. <i>Nature Nanotechnology</i> , 2010, 5, 742-748.	15.6	152
23	Rapid Self-Assembly of Monodisperse Colloidal Spheres in an Ink-Jet Printed Droplet. <i>Chemistry of Materials</i> , 2004, 16, 4212-4215.	3.2	151
24	Chiral 2D Organic Inorganic Hybrid Perovskite with Circular Dichroism Tunable Over Wide Wavelength Range. <i>Journal of the American Chemical Society</i> , 2020, 142, 4206-4212.	6.6	151
25	Annealing-free fabrication of highly oxidation-resistive copper nanowire composite conductors for photovoltaics. <i>NPG Asia Materials</i> , 2014, 6, e105-e105.	3.8	150
26	Preparation and characterization of the Sb-doped TiO <sub>2</sub> photocatalysts. <i>Journal of Materials Science</i> , 2001, 36, 949-955.	1.7	149
27	Fabrication and characterization of anode-supported electrolyte thin films for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2005, 139, 67-72.	4.0	149
28	Bias-Stress-Stable Solution-Processed Oxide Thin Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 611-615.	4.0	138
29	Benchmark performance of low-cost Sb <sub>2</sub> Se <sub>3</sub> photocathodes for unassisted solar overall water splitting. <i>Nature Communications</i> , 2020, 11, 861.	5.8	135
30	Direct-write fabrication of colloidal photonic crystal microarrays by ink-jet printing. <i>Journal of Colloid and Interface Science</i> , 2006, 298, 713-719.	5.0	130
31	ZnO nanoparticles with controlled shapes and sizes prepared using a simple polyol synthesis. <i>Superlattices and Microstructures</i> , 2008, 43, 330-339.	1.4	130
32	A highly stretchable, helical copper nanowire conductor exhibiting a stretchability of 700%. <i>NPG Asia Materials</i> , 2014, 6, e132-e132.	3.8	126
33	The impact of anode microstructure on the power generating characteristics of SOFC. <i>Solid State Ionics</i> , 2003, 158, 225-232.	1.3	121
34	Band-gap-graded Cu <sub>2</sub> ZnSn(S <sub>1-x</sub> Se <sub>x</sub> ) <sub>4</sub> Solar Cells Fabricated by an Ethanol-based, Particulate Precursor Ink Route. <i>Scientific Reports</i> , 2013, 3, 3069.	1.6	120
35	Black phosphorus supported Ni <sub>2</sub> P co-catalyst on graphitic carbon nitride enabling simultaneous boosting charge separation and surface reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 422-430.	10.8	120
36	Solution-deposited Zr-doped AlO <sub>x</sub> gate dielectrics enabling high-performance flexible transparent thin film transistors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4275.	2.7	115

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37	Performance and durability of Ni-coated YSZ anodes for intermediate temperature solid oxide fuel cells. <i>Solid State Ionics</i> , 2006, 177, 931-938.	1.3	114
38	Spatial charge separation on strongly coupled 2D-hybrid of rGO/La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> /NiFe-LDH heterostructures for highly efficient noble metal free photocatalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 178-186.	10.8	112
39	Inkjet-Printed Zinc Tin Oxide Thin-Film Transistor. <i>Langmuir</i> , 2009, 25, 11149-11154.	1.6	108
40	Bandgap-Graded Cu <sub>2</sub> Zn(Sn <sub>1-x</sub> Ge <sub>x</sub> )S <sub>4</sub> Thin-Film Solar Cells Derived from Metal Chalcogenide Complex Ligand Capped Nanocrystals. <i>Chemistry of Materials</i> , 2014, 26, 3957-3965.	3.2	108
41	A photonic sintering derived Ag flake/nanoparticle-based highly sensitive stretchable strain sensor for human motion monitoring. <i>Nanoscale</i> , 2018, 10, 7890-7897.	2.8	108
42	All-Solution-Processed Silver Nanowire Window Electrode-Based Flexible Perovskite Solar Cells Enabled with Amorphous Metal Oxide Protection. <i>Advanced Energy Materials</i> , 2018, 8, 1702182.	10.2	108
43	Fabrication of functionally graded reaction infiltrated SiCâ€‘Si composite by three-dimensional printing (3DPâ„¦) process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 298, 110-119.	2.6	107
44	A low-cure-temperature copper nano ink for highly conductive printed electrodes. <i>Current Applied Physics</i> , 2009, 9, e157-e160.	1.1	107
45	Chiral Perovskites for Next-Generation Photonics: From Chirality Transfer to Chiroptical Activity. <i>Advanced Materials</i> , 2021, 33, e2005760.	11.1	107
46	Organic thin film transistor using silver electrodes by the ink-jet printing technology. <i>Thin Solid Films</i> , 2007, 515, 7692-7696.	0.8	104
47	Effect of Carboxylic Acid on Sintering of Inkjet-Printed Copper Nanoparticulate Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 2377-2382.	4.0	104
48	A solution-processed yttrium oxide gate insulator for high-performance all-solution-processed fully transparent thin film transistors. <i>Journal of Materials Chemistry</i> , 2012, 22, 21265.	6.7	104
49	Molecular Chemistry-Controlled Hybrid Ink-Derived Efficient Cu <sub>2</sub> ZnSnS <sub>4</sub> Photocathodes for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2016, 1, 1127-1136.	8.8	103
50	Continuous Patterning of Copper Nanowire-Based Transparent Conducting Electrodes for Use in Flexible Electronic Applications. <i>ACS Nano</i> , 2016, 10, 7847-7854.	7.3	100
51	Fully solution-processed transparent electrodes based on silver nanowire composites for perovskite solar cells. <i>Nanoscale</i> , 2016, 8, 6308-6316.	2.8	99
52	Inkjet Printing of Binders for Ceramic Components. <i>Journal of the American Ceramic Society</i> , 2002, 85, 755-762.	1.9	97
53	Intermediate temperature solid oxide fuel cell using (La,Sr)(Co,Fe)O <sub>3</sub> -based cathodes. <i>Solid State Ionics</i> , 2006, 177, 3211-3216.	1.3	95
54	Parallelized Nanopillar Perovskites for Semitransparent Solar Cells Using an Anodized Aluminum Oxide Scaffold. <i>Advanced Energy Materials</i> , 2016, 6, 1601055.	10.2	95

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55	Time-Resolved Observations of Photo-Generated Charge-Carrier Dynamics in Sb <sub>2</sub> Se <sub>3</sub> Photocathodes for Photoelectrochemical Water Splitting. ACS Nano, 2018, 12, 11088-11097.	7.3	94
56	Self-oriented Sb <sub>2</sub> Se <sub>3</sub> nanoneedle photocathodes for water splitting obtained by a simple spin-coating method. Journal of Materials Chemistry A, 2017, 5, 2180-2187.	5.2	91
57	Solution processed invisible all-oxide thin film transistors. Journal of Materials Chemistry, 2009, 19, 8881.	6.7	90
58	Adjusting the Anisotropy of 1D Sb <sub>2</sub> Se <sub>3</sub> Nanostructures for Highly Efficient Photoelectrochemical Water Splitting. Advanced Energy Materials, 2018, 8, 1702888.	10.2	89
59	Low Temperature Solution-Processed InZnO Thin-Film Transistors. Journal of the Electrochemical Society, 2010, 157, J111.	1.3	88
60	Cu-Doped NiO <sub>x</sub> as an Effective Hole-Selective Layer for a High-Performance Sb <sub>2</sub> Se <sub>3</sub> Photocathode for Photoelectrochemical Water Splitting. ACS Energy Letters, 2019, 4, 995-1003.	8.8	88
61	Inkjet-printing of indium tin oxide (ITO) films for transparent conducting electrodes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 1128-1131.	1.7	87
62	Nano-composite materials for high-performance and durability of solid oxide fuel cells. Journal of Power Sources, 2006, 163, 392-397.	4.0	85
63	Recent Advances in Earth-Abundant Photocathodes for Photoelectrochemical Water Splitting. ChemSusChem, 2019, 12, 1889-1899.	3.6	84
64	Amino acid salt-driven planar hybrid perovskite solar cells with enhanced humidity stability. Nano Energy, 2019, 59, 481-491.	8.2	82
65	Low temperature synthesis of lead titanate by a hydrothermal method. Journal of Materials Research, 1997, 12, 189-197.	1.2	81
66	Origin of the enhanced photovoltaic characteristics of PbS thin film solar cells processed at near room temperature. Journal of Materials Chemistry A, 2014, 2, 20112-20117.	5.2	80
67	High performance and high stability low temperature aqueous solution-derived Li-Zr co-doped ZnO thin film transistors. Journal of Materials Chemistry, 2012, 22, 5390.	6.7	78
68	Promising wet chemical strategies to synthesize Cu nanowires for emerging electronic applications. Nanoscale, 2015, 7, 17195-17210.	2.8	77
69	Effect of metal (Al, Ga, and In)-dopants and/or Ag-nanoparticles on the optical and electrical properties of ZnO thin films. Thin Solid Films, 2006, 515, 957-960.	0.8	76
70	Compositional influence on sol-gel-derived amorphous oxide semiconductor thin film transistors. Applied Physics Letters, 2009, 95, 103501.	1.5	75
71	Electrospun Ni-Added SnO <sub>2</sub> -Carbon Nanofiber Composite Anode for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2012, 4, 5408-5415.	4.0	75
72	Strain-Mediated Phase Stabilization: A New Strategy for Ultrastable CsPbI <sub>3</sub> Perovskite by Nanoconfined Growth. Small, 2019, 15, e1900219.	5.2	74

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73	Metal salt-derived In <sup>+</sup> Ga <sup>+</sup> Zn <sup>+</sup> O semiconductors incorporating formamide as a novel co-solvent for producing solution-processed, electrohydrodynamic-jet printed, high performance oxide transistors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4236.	2.7	73
74	Hydrothermal synthesis of ferroelectric perovskites from chemically modified titanium isopropoxide and acetate salts. <i>Journal of Materials Research</i> , 1999, 14, 425-435.	1.2	72
75	Formation mechanisms and morphological changes during the hydrothermal synthesis of BaTiO <sub>3</sub> particles from a chemically modified, amorphous titanium (hydrous) oxide precursor. <i>Journal of the European Ceramic Society</i> , 2003, 23, 2153-2161.	2.8	71
76	Cu(alkyl amine complex mediated hydrothermal synthesis of Cu nanowires: exploring the dual role of alkyl amines. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22107-22115.	1.3	70
77	Highly porous carbon-coated silicon nanoparticles with canyon-like surfaces as a high-performance anode material for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3028-3037.	5.2	70
78	All Solution-Processed, Fully Transparent Resistive Memory Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4525-4530.	4.0	68
79	Extremely flexible, printable Ag conductive features on PET and paper substrates via continuous millisecond photonic sintering in a large area. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9746-9753.	2.7	68
80	Nanosized Glass Frit as an Adhesion Promoter for Inkjet Printed Conductive Patterns on Glass Substrates Annealed at High Temperatures. <i>Advanced Functional Materials</i> , 2008, 18, 2862-2868.	7.8	67
81	Cold Antisolvent Bathing Derived Highly Efficient Large-Area Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1901719.	10.2	67
82	Anion-mediated transition metal electrocatalysts for efficient water electrolysis: Recent advances and future perspectives. <i>Coordination Chemistry Reviews</i> , 2021, 427, 213552.	9.5	66
83	Read/write mechanisms and data storage system using atomic force microscopy and MEMS technology. <i>Ultramicroscopy</i> , 2002, 91, 103-110.	0.8	65
84	Efficient Solar-to-Hydrogen Conversion from Neutral Electrolytes using Morphology-Controlled Sb <sub>2</sub> Se <sub>3</sub> Light Absorbers. <i>ACS Energy Letters</i> , 2019, 4, 517-526.	8.8	63
85	Synthesis of oxidation-resistant core-shell copper nanoparticles. <i>RSC Advances</i> , 2013, 3, 15169.	1.7	62
86	Metal Nanowire Electrode-Based Perovskite Solar Cells: Challenging Issues and New Opportunities. <i>Advanced Energy Materials</i> , 2017, 7, 1602751.	10.2	62
87	Catalytic Combustion of Methane over Rare Earth Stannate Pyrochlore. <i>Catalysis Letters</i> , 2003, 87, 219-223.	1.4	61
88	Reducible Shell-Derived Pure Copper Nanowire Network and Its Application to Transparent Conducting Electrodes. <i>Advanced Functional Materials</i> , 2016, 26, 6545-6554.	7.8	61
89	Synthesis of nanocrystalline manganese oxide powders: Influence of hydrogen peroxide on particle characteristics. <i>Journal of Materials Research</i> , 1999, 14, 4594-4601.	1.2	59
90	Bias Stress Stability of Solution-Processed Zinc Tin Oxide Thin-Film Transistors. <i>Journal of the Electrochemical Society</i> , 2009, 156, H808.	1.3	59

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91	Solution-processed ZnO nanoparticle-based semiconductor oxide thin-film transistors. Superlattices and Microstructures, 2008, 44, 761-769.	1.4	58
92	Hierarchical Nanorod-Derived Bilayer Strategy to Enhance the Photocurrent Density of Sb <sub>2</sub> Se <sub>3</sub> Photocathodes for Photoelectrochemical Water Splitting. ACS Energy Letters, 2020, 5, 136-145.	8.8	58
93	Roll-to-roll-compatible, flexible, transparent electrodes based on self-nanoembedded Cu nanowires using intense pulsed light irradiation. Nanoscale, 2016, 8, 8995-9003.	2.8	57
94	Near-complete charge separation in tailored BiVO <sub>4</sub> -based heterostructure photoanodes toward artificial leaf. Applied Catalysis B: Environmental, 2021, 293, 120217.	10.8	57
95	Organic-inorganic hybrid dielectrics with low leakage current for organic thin-film transistors. Applied Physics Letters, 2006, 89, 092101.	1.5	56
96	Polyethylenimine-Mediated Electrostatic Assembly of MnO <sub>2</sub> Nanorods on Graphene Oxides for Use as Anodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 11499-11506.	4.0	56
97	Ni-YSZ cermet anode fabricated from NiO-YSZ composite powder for high-performance and durability of solid oxide fuel cells. Solid State Ionics, 2007, 178, 1304-1309.	1.3	55
98	Ink-Jet-Printed Organic-Inorganic Hybrid Dielectrics for Organic Thin-Film Transistors. Journal of Physical Chemistry C, 2008, 112, 5245-5249.	1.5	55
99	Bias stress stable aqueous solution derived Y-doped ZnO thin film transistors. Journal of Materials Chemistry, 2011, 21, 13524.	6.7	55
100	LSCF@SDC core-shell high-performance durable composite cathode. Journal of Power Sources, 2010, 195, 118-123.	4.0	54
101	La <sub>2</sub> O <sub>3</sub> interface modification of mesoporous TiO <sub>2</sub> nanostructures enabling highly efficient perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 15478-15485.	5.2	53
102	Relationship between printability and rheological behavior of ink-jet conductive inks. Ceramics International, 2013, 39, 7015-7021.	2.3	52
103	Inkjet-printed Cu source/drain electrodes for solution-deposited thin film transistors. Journal of Materials Chemistry, 2010, 20, 3877.	6.7	51
104	Characterization of the electrode and electrolyte interfaces of LSGM-based SOFCs. Solid State Ionics, 2006, 177, 2155-2158.	1.3	50
105	Controlled Electrodeposition of Photoelectrochemically Active Amorphous MoS <sub>x</sub> Cocatalyst on Sb <sub>2</sub> Se <sub>3</sub> Photocathode. ACS Applied Materials & Interfaces, 2018, 10, 10898-10908.	4.0	50
106	Hydrogel protection strategy to stabilize water-splitting photoelectrodes. Nature Energy, 2022, 7, 537-547.	19.8	50
107	Influence of annealing condition on the properties of sputtered hafnium oxide. Journal of Non-Crystalline Solids, 2002, 303, 139-143.	1.5	48
108	Oriented Lead Titanate Film Growth at Lower Temperatures by the Sol-Gel Method on Particle-Seeded Substrates. Journal of the American Ceramic Society, 1997, 80, 2613-2623.	1.9	48

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109	Effect of starting particulate materials on microstructure and cathodic performance of nanoporous LSMâ€‘YSZ composite cathodes. <i>Journal of Power Sources</i> , 2007, 167, 258-264.	4.0	48
110	Solar water splitting exceeding 10% efficiency<i>via</i>low-cost Sb<sub>2</sub>Se<sub>3</sub> photocathodes coupled with semitransparent perovskite photovoltaics. <i>Energy and Environmental Science</i> , 2020, 13, 4362-4370.	15.6	47
111	All-Ink-Jet Printed Flexible Organic Thin-Film Transistors on Plastic Substrates. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, H195.	2.2	46
112	Contact Area Lithography (CAL):Â A New Approach to Direct Formation of Nanometric Chemical Patterns. <i>Chemistry of Materials</i> , 2006, 18, 1085-1088.	3.2	45
113	Effects of anode and electrolyte microstructures on performance of solid oxide fuel cells. <i>Journal of Power Sources</i> , 2007, 169, 265-270.	4.0	45
114	Enhanced Performance of Solution-Processed Amorphous LiYInZnO Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 1456-1461.	4.0	45
115	Nano-composite structural Niâ€‘Sn alloy anodes for high performance and durability of direct methane-fueled SOFCs. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13801-13806.	5.2	45
116	Direct methane solid oxide fuel cells based on catalytic partial oxidation enabling complete coking tolerance of Ni-based anodes. <i>Journal of Power Sources</i> , 2017, 345, 30-40.	4.0	45
117	Fabrication of Monodisperse Asymmetric Colloidal Clusters by Using Contact Area Lithography (CAL). <i>Journal of the American Chemical Society</i> , 2007, 129, 14232-14239.	6.6	44
118	Low-temperature soluble InZnO thin film transistors by microwave annealing. <i>Journal of Crystal Growth</i> , 2011, 326, 23-27.	0.7	44
119	Selective Light-Induced Patterning of Carbon Nanotube/Silver Nanoparticle Composite To Produce Extremely Flexible Conductive Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6163-6170.	4.0	44
120	Investigating Recombination and Charge Carrier Dynamics in a One-Dimensional Nanopillared Perovskite Absorber. <i>ACS Nano</i> , 2018, 12, 4233-4245.	7.3	44
121	Boosting Visible Light Harvesting in pâ€‘Type Ternary Oxides for Solarâ€‘toâ€‘Hydrogen Conversion Using Inverse Opal Structure. <i>Advanced Functional Materials</i> , 2019, 29, 1900194.	7.8	43
122	Fullerene as a Photoelectron Transfer Promoter Enabling Stable TiO<sub>2</sub>â€‘Protected Sb<sub>2</sub>Se<sub>3</sub> Photocathodes for Photoâ€‘Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2019, 9, 1900179.	10.2	43
123	Hierarchically Structured Bifunctional Electrocatalysts of Stacked Coreâ€‘Shell CoS<sub>1âˆ’x</sub>P<sub>x</sub> Heterostructure Nanosheets for Overall Water Splitting. <i>Small Methods</i> , 2020, 4, 2000043.	4.6	43
124	Solution-processable tin-doped indium oxide with a versatile patternability for transparent oxide thin film transistors. <i>Journal of Materials Chemistry</i> , 2011, 21, 14646.	6.7	42
125	Effect of gallium content on bias stress stability of solution-deposited Gaâ€‘Snâ€‘Znâ€‘O semiconductor transistors. <i>Thin Solid Films</i> , 2011, 519, 6164-6168.	0.8	41
126	A pre-strain strategy for developing a highly stretchable and foldable one-dimensional conductive cord based on a Ag nanowire network. <i>Nanoscale</i> , 2017, 9, 5773-5778.	2.8	41

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127	Elucidating the origin of chiroptical activity in chiral 2D perovskites through nano-confined growth. <i>Nature Communications</i> , 2022, 13, .	5.8	41
128	Fabrication of a solution-processed thin-film transistor using zinc oxide nanoparticles and zinc acetate. <i>Superlattices and Microstructures</i> , 2007, 42, 361-368.	1.4	40
129	Facile morphology control strategy to enhance charge separation efficiency of Mo:BiVO <sub>4</sub> photoanodes for efficient photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2022, 430, 133061.	6.6	40
130	Highly concentrated synthesis of copper-zinc-tin-sulfide nanocrystals with easily decomposable capping molecules for printed photovoltaic applications. <i>Nanoscale</i> , 2013, 5, 10183.	2.8	39
131	A nanopillar-structured perovskite-based efficient semitransparent solar module for power-generating window applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1457-1468.	5.2	39
132	Particle-shape control and formation mechanisms of hydrothermally derived lead titanate. <i>Journal of Materials Research</i> , 1999, 14, 866-875.	1.2	38
133	Co-electrospun Pd-coated porous carbon nanofibers for hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3566-3573.	3.8	38
134	Influence of precursor type on non-toxic hybrid inks for high-efficiency Cu <sub>2</sub> ZnSnS <sub>4</sub> thin-film solar cells. <i>Green Chemistry</i> , 2014, 16, 4323-4332.	4.6	37
135	Retarding Crystallization during Facile Single Coating of NaCl-Incorporated Precursor Solution for Efficient Large-Area Uniform Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 29419-29426.	4.0	37
136	Fabrication of colloidal self-assembled monolayer (SAM) using monodisperse silica and its use as a lithographic mask. <i>Thin Solid Films</i> , 2004, 447-448, 638-644.	0.8	36
137	Enhanced Photocurrent of Transparent CuFeO <sub>2</sub> Photocathodes by Self-Light-Harvesting Architecture. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14078-14087.	4.0	36
138	Performance enhancement of mesoporous TiO <sub>2</sub> -based perovskite solar cells by ZnS ultrathin-interfacial modification layer. <i>Journal of Alloys and Compounds</i> , 2018, 738, 405-414.	2.8	36
139	High-Performance Phase-Pure SnS Photocathodes for Photoelectrochemical Water Splitting Obtained via Molecular Ink-Derived Seed-Assisted Growth of Nanoplates. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15155-15166.	4.0	36
140	Phase development of barium titanate from chemically modified-amorphous titanium (hydrous) oxide precursor. <i>Journal of the European Ceramic Society</i> , 2002, 22, 809-815.	2.8	35
141	Aging Dynamics of Solution-Processed Amorphous Oxide Semiconductor Field Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 626-632.	4.0	35
142	Hydrothermal Synthesis and Formation Mechanisms of Lanthanum Tin Pyrochlore Oxide. <i>Journal of the American Ceramic Society</i> , 2001, 84, 2531-2536.	1.9	34
143	Direct photopatternable organic-inorganic hybrid gate dielectric for solution-processed flexible ZnO thin film transistors. <i>Journal of Materials Chemistry</i> , 2011, 21, 11879.	6.7	34
144	Elucidation of the Formation Mechanism of Highly Oriented Multiphase Ruddlesden-Popper Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 249-260.	8.8	34

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