Jooho Moon

List of Publications by Citations

269 papers	14,359 citations	65 h-index	109 g-index
298 ext. papers	16,095 ext. citations	9 avg, IF	6.81 L-index

#	Paper	IF	Citations
269	Control of colloidal particle deposit patterns within picoliter droplets ejected by ink-jet printing. *Langmuir*, **2006**, 22, 3506-13	4	573
268	Synthesis and size control of monodisperse copper nanoparticles by polyol method. *Journal of Colloid and Interface Science*, **2007**, 311, 417-24	9.3	494
267	Influence of fluid physical properties on ink-jet printability. *Langmuir*, **2009**, 25, 2629-35	4	472
266	Role of gallium doping in dramatically lowering amorphous-oxide processing temperatures for solution-derived indium zinc oxide thin-film transistors. *Advanced Materials*, **2010**, 22, 1346-50	24	448
265	Direct writing of copper conductive patterns by ink-jet printing. *Thin Solid Films*, **2007**, 515, 7706-7711	2.2	427
264	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	15.6	407
263	Highly transparent low resistance ZnO/Ag nanowire/ZnO composite electrode for thin film solar cells. *ACS Nano*, **2013**, 7, 1081-91	16.7	370
262	Synthesis of silver nanoparticles using the polyol process and the influence of precursor injection. *Nanotechnology*, **2006**, 17, 4019-24	3.4	264
261	Direct writing of silver conductive patterns: Improvement of film morphology and conductance by controlling solvent compositions. *Applied Physics Letters*, **2006**, 89, 264101	3.4	247
260	Highly Conductive Ink Jet Printed Films of Nanosilver Particles for Printable Electronics. *Electrochemical and Solid-State Letters*, **2005**, 8, J30		218
259	A non-toxic, solution-processed, earth abundant absorbing layer for thin-film solar cells. *Energy and Environmental Science*, **2012**, 5, 5340-5345	35.4	203
258	Strategies for enhancing the photocurrent, photovoltage, and stability of photoelectrodes for photoelectrochemical water splitting. *Chemical Society Reviews*, **2019**, 48, 4979-5015	58.5	199
257	Preparation of Ag/SiO2 Nanosize Composites by a Reverse Micelle and Sol□Gel Technique. *Langmuir*, **1999**, 15, 4328-4334	4	198
256	Low-temperature, solution-processed metal oxide thin film transistors. *Journal of Materials Chemistry*, **2012**, 22, 1243-1250		179
255	Homologous CoP/NiCoP Heterostructure on N-Doped Carbon for Highly Efficient and pH-Universal Hydrogen Evolution Electrocatalysis. *Advanced Functional Materials*, **2019**, 29, 1807976	15.6	165
254	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	15.6	155
253	Fully flexible solution-deposited zno thin-film transistors. *Advanced Materials*, **2010**, 22, 4308-12	24	152

252	High-performance low-temperature solution-processable ZnO thin film transistors by microwave-assisted annealing. *Journal of Materials Chemistry*, **2011**, 21, 1102-1108		149
251	Ink-jet printing of cu-ag-based highly conductive tracks on a transparent substrate. *Langmuir*, **2009**, 25, 429-33	4	149
250	Solution-Processed Zinc Tin Oxide Semiconductor for Thin-Film Transistors. *Journal of Physical Chemistry C*, **2008**, 112, 11082-11085	3.8	148
249	A new class of chiral semiconductors: chiral-organic-molecule-incorporating organic□inorganic hybrid perovskites. *Materials Horizons*, **2017**, 4, 851-856	14.4	142
248	Rapid Self-Assembly of Monodisperse Colloidal Spheres in an Ink-Jet Printed Droplet. *Chemistry of Materials*, **2004**, 16, 4212-4215	9.6	138
247	Direct nanoprinting by liquid-bridge-mediated nanotransfer moulding. *Nature Nanotechnology*, **2010**, 5, 742-8	28.7	135
246	Fabrication and characterization of anode-supported electrolyte thin films for intermediate temperature solid oxide fuel cells. *Journal of Power Sources*, **2005**, 139, 67-72	8.9	133
245	Preparation and characterization of the Sb-doped TiO2 photocatalysts. *Journal of Materials Science*, **2001**, 36, 949-955	4.3	132
244	Annealing-free fabrication of highly oxidation-resistive copper nanowire composite conductors for photovoltaics. *NPG Asia Materials*, **2014**, 6, e105-e105	10.3	122
243	Direct-write fabrication of colloidal photonic crystal microarrays by ink-jet printing. *Journal of Colloid and Interface Science*, **2006**, 298, 713-9	9.3	121
242	Bias-stress-stable solution-processed oxide thin film transistors. *ACS Applied Materials & Interfaces*, **2010**, 2, 611-5	9.5	120
241	The impact of anode microstructure on the power generating characteristics of SOFC. *Solid State Ionics*, **2003**, 158, 225-232	3.3	107
240	ZnO nanoparticles with controlled shapes and sizes prepared using a simple polyol synthesis. *Superlattices and Microstructures*, **2008**, 43, 330-339	2.8	105
239	Solution-deposited Zr-doped AlOx gate dielectrics enabling high-performance flexible transparent thin film transistors. *Journal of Materials Chemistry C*, **2013**, 1, 4275	7.1	104
238	A highly stretchable, helical copper nanowire conductor exhibiting a stretchability of 700%. *NPG Asia Materials*, **2014**, 6, e132-e132	10.3	101
237	Inkjet-printed zinc tin oxide thin-film transistor. *Langmuir*, **2009**, 25, 11149-54	4	97
236	Band-gap-graded Cu2ZnSn(S1-x,Se(x))4 solar cells fabricated by an ethanol-based, particulate precursor ink route. *Scientific Reports*, **2013**, 3, 3069	4.9	96
235	Performance and durability of Ni-coated YSZ anodes for intermediate temperature solid oxide fuel cells. *Solid State Ionics*, **2006**, 177, 931-938	3.3	96

234	Organic thin film transistor using silver electrodes by the ink-jet printing technology. *Thin Solid Films*, **2007**, 515, 7692-7696	2.2	94
233	Bandgap-Graded Cu2Zn(Sn1−xGex)S4 Thin-Film Solar Cells Derived from Metal Chalcogenide Complex Ligand Capped Nanocrystals. *Chemistry of Materials*, **2014**, 26, 3957-3965	9.6	93
232	A solution-processed yttrium oxide gate insulator for high-performance all-solution-processed fully transparent thin film transistors. *Journal of Materials Chemistry*, **2012**, 22, 21265		93
231	Fabrication of functionally graded reaction infiltrated SiC–Si composite by three-dimensional printing (3DP) process. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 298, 110-119	5.3	93
230	A low-cure-temperature copper nano ink for highly conductive printed electrodes. *Current Applied Physics*, **2009**, 9, e157-e160	2.6	92
229	All-Solution-Processed Silver Nanowire Window Electrode-Based Flexible Perovskite Solar Cells Enabled with Amorphous Metal Oxide Protection. *Advanced Energy Materials*, **2018**, 8, 1702182	21.8	85
228	Solution processed invisible all-oxide thin film transistors. *Journal of Materials Chemistry*, **2009**, 19, 8881		85
227	Molecular Chemistry-Controlled Hybrid Ink-Derived Efficient Cu2ZnSnS4 Photocathodes for Photoelectrochemical Water Splitting. *ACS Energy Letters*, **2016**, 1, 1127-1136	20.1	83
226	Fully solution-processed transparent electrodes based on silver nanowire composites for perovskite solar cells. *Nanoscale*, **2016**, 8, 6308-16	7.7	82
225	Effect of carboxylic acid on sintering of inkjet-printed copper nanoparticulate films. *ACS Applied Materials & Interfaces*, **2011**, 3, 2377-82	9.5	82
224	Intermediate temperature solid oxide fuel cell using (La,Sr)(Co,Fe)O3-based cathodes. *Solid State Ionics*, **2006**, 177, 3211-3216	3.3	81
223	Black phosphorus supported Ni2P co-catalyst on graphitic carbon nitride enabling simultaneous boosting charge separation and surface reaction. *Applied Catalysis B: Environmental*, **2019**, 242, 422-430	21.8	81
222	Low Temperature Solution-Processed InZnO Thin-Film Transistors. *Journal of the Electrochemical Society*, **2010**, 157, J111	3.9	80
221	Continuous Patterning of Copper Nanowire-Based Transparent Conducting Electrodes for Use in Flexible Electronic Applications. *ACS Nano*, **2016**, 10, 7847-54	16.7	79
220	Low temperature synthesis of lead titanate by a hydrothermal method. *Journal of Materials Research*, **1997**, 12, 189-197	2.5	78
219	Chiral 2D Organic Inorganic Hybrid Perovskite with Circular Dichroism Tunable Over Wide Wavelength Range. *Journal of the American Chemical Society*, **2020**, 142, 4206-4212	16.4	74
218	A photonic sintering derived Ag flake/nanoparticle-based highly sensitive stretchable strain sensor for human motion monitoring. *Nanoscale*, **2018**, 10, 7890-7897	7.7	74
217	Ink-Jet Printing of Binders for Ceramic Components. *Journal of the American Ceramic Society*, **2004**, 85, 755-762	3.8	74

216	Spatial charge separation on strongly coupled 2D-hybrid of rGO/La2Ti2O7/NiFe-LDH heterostructures for highly efficient noble metal free photocatalytic hydrogen generation. *Applied Catalysis B: Environmental*, **2018**, 239, 178-186	21.8	73
215	Compositional influence on sol-gel-derived amorphous oxide semiconductor thin film transistors. *Applied Physics Letters*, **2009**, 95, 103501	3.4	73
214	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	13	71
213	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	3.1	71
212	Nano-composite materials for high-performance and durability of solid oxide fuel cells. *Journal of Power Sources*, **2006**, 163, 392-397	8.9	71
211	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	2.2	71
210	Metal salt-derived InGaZnO semiconductors incorporating formamide as a novel co-solvent for producing solution-processed, electrohydrodynamic-jet printed, high performance oxide transistors. *Journal of Materials Chemistry C*, **2013**, 1, 4236	7.1	67
209	Formation mechanisms and morphological changes during the hydrothermal synthesis of BaTiO3 particles from a chemically modified, amorphous titanium (hydrous) oxide precursor. *Journal of the European Ceramic Society*, **2003**, 23, 2153-2161	6	67
208	Adjusting the Anisotropy of 1D Sb2Se3 Nanostructures for Highly Efficient Photoelectrochemical Water Splitting. *Advanced Energy Materials*, **2018**, 8, 1702888	21.8	66
207	Electrospun Ni-added SnO2-carbon nanofiber composite anode for high-performance lithium-ion batteries. *ACS Applied Materials & Interfaces*, **2012**, 4, 5408-15	9.5	66
206	Hydrothermal synthesis of ferroelectric perovskites from chemically modified titanium isopropoxide and acetate salts. *Journal of Materials Research*, **1999**, 14, 425-435	2.5	66
205	High performance and high stability low temperature aqueous solution-derived LiZr co-doped ZnO thin film transistors. *Journal of Materials Chemistry*, **2012**, 22, 5390		65
204	Parallelized Nanopillar Perovskites for Semitransparent Solar Cells Using an Anodized Aluminum Oxide Scaffold. *Advanced Energy Materials*, **2016**, 6, 1601055	21.8	64
203	Self-oriented Sb2Se3 nanoneedle photocathodes for water splitting obtained by a simple spin-coating method. *Journal of Materials Chemistry A*, **2017**, 5, 2180-2187	13	62
202	Nanosized Glass Frit as an Adhesion Promoter for Ink-Jet Printed Conductive Patterns on Glass Substrates Annealed at High Temperatures. *Advanced Functional Materials*, **2008**, 18, 2862-2868	15.6	62
201	Promising wet chemical strategies to synthesize Cu nanowires for emerging electronic applications. *Nanoscale*, **2015**, 7, 17195-210	7.7	61
200	Extremely flexible, printable Ag conductive features on PET and paper substrates via continuous millisecond photonic sintering in a large area. *Journal of Materials Chemistry C*, **2014**, 2, 9746-9753	7.1	61
199	Benchmark performance of low-cost SbSe photocathodes for unassisted solar overall water splitting. *Nature Communications*, **2020**, 11, 861	17.4	61

198	Time-Resolved Observations of Photo-Generated Charge-Carrier Dynamics in SbSe Photocathodes for Photoelectrochemical Water Splitting. *ACS Nano*, **2018**, 12, 11088-11097	16.7	58
197	Read/write mechanisms and data storage system using atomic force microscopy and MEMS technology. *Ultramicroscopy*, **2002**, 91, 103-10	3.1	57
196	Bias Stress Stability of Solution-Processed Zinc Tin Oxide Thin-Film Transistors. *Journal of the Electrochemical Society*, **2009**, 156, H808	3.9	56
195	Highly porous carbon-coated silicon nanoparticles with canyon-like surfaces as a high-performance anode material for Li-ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 3028-3037	13	55
194	Recent Advances in Earth-Abundant Photocathodes for Photoelectrochemical Water Splitting. *ChemSusChem*, **2019**, 12, 1889-1899	8.3	55
193	All solution-processed, fully transparent resistive memory devices. *ACS Applied Materials & Interfaces*, **2011**, 3, 4525-30	9.5	55
192	Cu-Doped NiOx as an Effective Hole-Selective Layer for a High-Performance Sb2Se3 Photocathode for Photoelectrochemical Water Splitting. *ACS Energy Letters*, **2019**, 4, 995-1003	20.1	54
191	Solution-processed ZnO nanoparticle-based semiconductor oxide thin-film transistors. *Superlattices and Microstructures*, **2008**, 44, 761-769	2.8	54
190	Catalytic Combustion of Methane over Rare Earth Stannate Pyrochlore. *Catalysis Letters*, **2003**, 87, 219-228	2.8	54
189	Reducible-Shell-Derived Pure-Copper-Nanowire Network and Its Application to Transparent Conducting Electrodes. *Advanced Functional Materials*, **2016**, 26, 6545-6554	15.6	53
188	Cu(II)-alkyl amine complex mediated hydrothermal synthesis of Cu nanowires: exploring the dual role of alkyl amines. *Physical Chemistry Chemical Physics*, **2014**, 16, 22107-15	3.6	53
187	Bias stress stable aqueous solution derived Y-doped ZnO thin film transistors. *Journal of Materials Chemistry*, **2011**, 21, 13524		53
186	Organic-inorganic hybrid dielectrics with low leakage current for organic thin-film transistors. *Applied Physics Letters*, **2006**, 89, 092101	3.4	53
185	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	3.3	52
184	Synthesis of nanocrystalline manganese oxide powders: Influence of hydrogen peroxide on particle characteristics. *Journal of Materials Research*, **1999**, 14, 4594-4601	2.5	52
183	Synthesis of oxidation-resistant core–shell copper nanoparticles. *RSC Advances*, **2013**, 3, 15169	3.7	50
182	Amino acid salt-driven planar hybrid perovskite solar cells with enhanced humidity stability. *Nano Energy*, **2019**, 59, 481-491	17.1	49
181	Ink-Jet-Printed Organic–Inorganic Hybrid Dielectrics for Organic Thin-Film Transistors. *Journal of Physical Chemistry C*, **2008**, 112, 5245-5249	3.8	49

180	Strain-Mediated Phase Stabilization: A New Strategy for Ultrastable □CsPbI Perovskite by Nanoconfined Growth. *Small*, **2019**, 15, e1900219	11	48
179	All-Ink-Jet Printed Flexible Organic Thin-Film Transistors on Plastic Substrates. *Electrochemical and Solid-State Letters*, **2009**, 12, H195		45
178	La2O3 interface modification of mesoporous TiO2 nanostructures enabling highly efficient perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 15478-15485	13	45
177	Metal-Nanowire-Electrode-Based Perovskite Solar Cells: Challenging Issues and New Opportunities. *Advanced Energy Materials*, **2017**, 7, 1602751	21.8	44
176	Efficient Solar-to-Hydrogen Conversion from Neutral Electrolytes using Morphology-Controlled Sb2Se3 Light Absorbers. *ACS Energy Letters*, **2019**, 4, 517-526	20.1	44
175	Cold Antisolvent Bathing Derived Highly Efficient Large-Area Perovskite Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1901719	21.8	44
174	Inkjet-printed Cu source/drain electrodes for solution-deposited thin film transistors. *Journal of Materials Chemistry*, **2010**, 20, 3877		44
173	Effect of starting particulate materials on microstructure and cathodic performance of nanoporous LSM□YSZ composite cathodes. *Journal of Power Sources*, **2007**, 167, 258-264	8.9	44
172	Roll-to-roll-compatible, flexible, transparent electrodes based on self-nanoembedded Cu nanowires using intense pulsed light irradiation. *Nanoscale*, **2016**, 8, 8995-9003	7.7	44
171	Enhanced performance of solution-processed amorphous LiYInZnO thin-film transistors. *ACS Applied Materials & Interfaces*, **2012**, 4, 1456-61	9.5	42
170	Low-temperature soluble InZnO thin film transistors by microwave annealing. *Journal of Crystal Growth*, **2011**, 326, 23-27	1.6	42
169	LSCF□SDC core□hell high-performance durable composite cathode. *Journal of Power Sources*, **2010**, 195, 118-123	8.9	42
168	Fabrication of monodisperse asymmetric colloidal clusters by using contact area lithography (CAL). *Journal of the American Chemical Society*, **2007**, 129, 14232-9	16.4	42
167	Characterization of the electrode and electrolyte interfaces of LSGM-based SOFCs. *Solid State Ionics*, **2006**, 177, 2155-2158	3.3	42
166	Influence of annealing condition on the properties of sputtered hafnium oxide. *Journal of Non-Crystalline Solids*, **2002**, 303, 139-143	3.9	42
165	Polyethylenimine-Mediated Electrostatic Assembly of MnO2 Nanorods on Graphene Oxides for Use as Anodes in Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 11499-506	9.5	42
164	Controlled Electrodeposition of Photoelectrochemically Active Amorphous MoS Cocatalyst on SbSe Photocathode. *ACS Applied Materials & Interfaces*, **2018**, 10, 10898-10908	9.5	41
163	Contact Area Lithography (CAL): A New Approach to Direct Formation of Nanometric Chemical Patterns. *Chemistry of Materials*, **2006**, 18, 1085-1088	9.6	41

162	Solution-processable tin-doped indium oxide with a versatile patternability for transparent oxide thin film transistors. *Journal of Materials Chemistry*, **2011**, 21, 14646		39
161	Effect of gallium content on bias stress stability of solution-deposited GaSnZnO semiconductor transistors. *Thin Solid Films*, **2011**, 519, 6164-6168	2.2	38
160	Effects of anode and electrolyte microstructures on performance of solid oxide fuel cells. *Journal of Power Sources*, **2007**, 169, 265-270	8.9	38
159	Highly concentrated synthesis of copper-zinc-tin-sulfide nanocrystals with easily decomposable capping molecules for printed photovoltaic applications. *Nanoscale*, **2013**, 5, 10183-8	7.7	37
158	Relationship between printability and rheological behavior of ink-jet conductive inks. *Ceramics International*, **2013**, 39, 7015-7021	5.1	37
157	Influence of precursor type on non-toxic hybrid inks for high-efficiency Cu2ZnSnS4 thin-film solar cells. *Green Chemistry*, **2014**, 16, 4323-4332	10	36
156	Nano-composite structural NiSn alloy anodes for high performance and durability of direct methane-fueled SOFCs. *Journal of Materials Chemistry A*, **2015**, 3, 13801-13806	13	36
155	Oriented Lead Titanate Film Growth at Lower Temperatures by the Sol-Gel Method on Particle-Seeded Substrates. *Journal of the American Ceramic Society*, **2005**, 80, 2613-2623	3.8	36
154	Fabrication of a solution-processed thin-film transistor using zinc oxide nanoparticles and zinc acetate. *Superlattices and Microstructures*, **2007**, 42, 361-368	2.8	35
153	Particle-shape control and formation mechanisms of hydrothermally derived lead titanate. *Journal of Materials Research*, **1999**, 14, 866-875	2.5	35
152	Fabrication of colloidal self-assembled monolayer (SAM) using monodisperse silica and its use as a lithographic mask. *Thin Solid Films*, **2004**, 447-448, 638-644	2.2	34
151	Chiral Perovskites for Next-Generation Photonics: From Chirality Transfer to Chiroptical Activity. *Advanced Materials*, **2021**, 33, e2005760	24	34
150	Selective Light-Induced Patterning of Carbon Nanotube/Silver Nanoparticle Composite To Produce Extremely Flexible Conductive Electrodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 6163-6170	9.5	33
149	Direct photopatternable organic–inorganic hybrid gate dielectric for solution-processed flexible ZnO thin film transistors. *Journal of Materials Chemistry*, **2011**, 21, 11879		33
148	Phase development of barium titanate from chemically modified-amorphous titanium (hydrous) oxide precursor. *Journal of the European Ceramic Society*, **2002**, 22, 809-815	6	33
147	Influences of pH and ligand type on the performance of inorganic aqueous precursor-derived ZnO thin film transistors. *ACS Applied Materials & Interfaces*, **2011**, 3, 774-81	9.5	32
146	Aging dynamics of solution-processed amorphous oxide semiconductor field effect transistors. *ACS Applied Materials & Interfaces*, **2010**, 2, 626-32	9.5	32
145	Enhanced Photocurrent of Transparent CuFeO Photocathodes by Self-Light-Harvesting Architecture. *ACS Applied Materials & Interfaces*, **2017**, 9, 14078-14087	9.5	31

144	Co-electrospun Pd-coated porous carbon nanofibers for hydrogen storage applications. *International Journal of Hydrogen Energy*, **2011**, 36, 3566-3573	6.7	31
143	Direct methane solid oxide fuel cells based on catalytic partial oxidation enabling complete coking tolerance of Ni-based anodes. *Journal of Power Sources*, **2017**, 345, 30-40	8.9	30
142	Boosting Visible Light Harvesting in p-Type Ternary Oxides for Solar-to-Hydrogen Conversion Using Inverse Opal Structure. *Advanced Functional Materials*, **2019**, 29, 1900194	15.6	29
141	Investigating Recombination and Charge Carrier Dynamics in a One-Dimensional Nanopillared Perovskite Absorber. *ACS Nano*, **2018**, 12, 4233-4245	16.7	29
140	Hydrothermal Synthesis and Formation Mechanisms of Lanthanum Tin Pyrochlore Oxide. *Journal of the American Ceramic Society*, **2001**, 84, 2531-2536	3.8	29
139	Hierarchal Nanorod-Derived Bilayer Strategy to Enhance the Photocurrent Density of Sb2Se3 Photocathodes for Photoelectrochemical Water Splitting. *ACS Energy Letters*, **2020**, 5, 136-145	20.1	29
138	Compositional influence of LSM-YSZ composite cathodes on improved performance and durability of solid oxide fuel cells. *Journal of Power Sources*, **2009**, 187, 25-31	8.9	28
137	Single-Chamber Solid Oxide Fuel Cell with Micropatterned Interdigitated Electrodes. *Electrochemical and Solid-State Letters*, **2006**, 9, A228		28
136	Fabrication of photo-patternable inorganic□rganic hybrid film by spin-coating. *Thin Solid Films*, **2004**, 466, 204-208	2.2	28
135	Optical properties of single droplet of photonic crystal assembled by ink-jet printing. *Applied Physics Letters*, **2005**, 86, 241114	3.4	28
134	Anion-mediated transition metal electrocatalysts for efficient water electrolysis: Recent advances and future perspectives. *Coordination Chemistry Reviews*, **2021**, 427, 213552	23.2	28
133	A pre-strain strategy for developing a highly stretchable and foldable one-dimensional conductive cord based on a Ag nanowire network. *Nanoscale*, **2017**, 9, 5773-5778	7.7	27
132	Fullerene as a Photoelectron Transfer Promoter Enabling Stable TiO2-Protected Sb2Se3 Photocathodes for Photo-Electrochemical Water Splitting. *Advanced Energy Materials*, **2019**, 9, 1900179	21.8	27
131	Retarding Crystallization during Facile Single Coating of NaCl-Incorporated Precursor Solution for Efficient Large-Area Uniform Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 29419-29426	9.5	27
130	Performance enhancement of mesoporous TiO2-based perovskite solar cells by ZnS ultrathin-interfacial modification layer. *Journal of Alloys and Compounds*, **2018**, 738, 405-414	5.7	25
129	Shape-Reconfigurable Aluminum□Air Batteries. *Advanced Functional Materials*, **2017**, 27, 1702244	15.6	25
128	Interlayer-free nanostructured La0.58Sr0.4Co0.2 Fe0.8O3□cathode on scandium stabilized zirconia electrolyte for intermediate-temperature solid oxide fuel cells. *Journal of Power Sources*, **2009**, 187, 74-79	8.9	25
127	Hierarchical titania nanotubes with self-branched crystalline nanorods. *ACS Applied Materials & Interfaces*, **2010**, 2, 1581-7	9.5	24

126	Nanoparticle-dispersed high-k organic–inorganic hybrid dielectrics for organic thin-film transistors. *Organic Electronics*, **2009**, 10, 982-989	3.5	24
125	A nanopillar-structured perovskite-based efficient semitransparent solar module for power-generating window applications. *Journal of Materials Chemistry A*, **2020**, 8, 1457-1468	13	24
124	Influence of patterned electrode geometry on performance of co-planar, single-chamber, solid oxide fuel cell. *Journal of Power Sources*, **2007**, 171, 511-516	8.9	23
123	Sol–Gel Route to Porous Lanthanum Cobaltite (LaCoO3) Thin Films. *Journal of the American Ceramic Society*, **2004**, 83, 2852-2854	3.8	23
122	3D intra-stacked CoO/carbon nanocomposites welded by Ag nanoparticles for high-capacity, reversible lithium storage. *Nanoscale*, **2015**, 7, 10368-76	7.7	22
121	Photoelectrochemical Properties of Vertically Aligned CuInS2 Nanorod Arrays Prepared via Template-Assisted Growth and Transfer. *ACS Applied Materials & Interfaces*, **2016**, 8, 425-31	9.5	22
120	LSCM–YSZ nanocomposites for a high performance SOFC anode. *Ceramics International*, **2013**, 39, 9753-9758	5.1	22
119	Facile Microwave-Assisted Synthesis of Multiphase CuInSe2 Nanoparticles and Role of Secondary CuSe Phase on Photovoltaic Device Performance. *Journal of Physical Chemistry C*, **2013**, 117, 9529-9536	3.8	22
118	Functionally-graded composite cathodes for durable and high performance solid oxide fuel cells. *Journal of Power Sources*, **2010**, 195, 2628-2632	8.9	22
117	Uniform Y2O3 coating on multi-component phosphor powders by modified polyol process. *Journal of Colloid and Interface Science*, **2006**, 297, 589-94	9.3	22
116	Photoelectrodes based on 2D opals assembled from Cu-delafossite double-shelled microspheres for an enhanced photoelectrochemical response. *Nanoscale*, **2018**, 10, 3720-3729	7.7	21
115	An investigation of the interfacial stability between the anode and electrolyte layer of LSGM-based SOFCs. *Journal of Materials Science*, **2007**, 42, 1866-1871	4.3	21
114	Elucidation of the Formation Mechanism of Highly Oriented Multiphase Ruddlesden–Popper Perovskite Solar Cells. *ACS Energy Letters*, **2021**, 6, 249-260	20.1	21
113	High-Performance Phase-Pure SnS Photocathodes for Photoelectrochemical Water Splitting Obtained via Molecular Ink-Derived Seed-Assisted Growth of Nanoplates. *ACS Applied Materials & Interfaces*, **2020**, 12, 15155-15166	9.5	20
112	Effects of atmospheric Ti (III) reduction on Nb2O5-doped Li4Ti5O12 anode materials for lithium ion batteries. *Ceramics International*, **2014**, 40, 8869-8874	5.1	20
111	Durable high-performance Sm0.5Sr0.5CoO3–Sm0.2Ce0.8O1.9 core-shell type composite cathodes for low temperature solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2011**, 36, 6875-6881	6.7	20
110	Ink-Jet Printing of Silver Conductive Tracks on Flexible Substrates. *Molecular Crystals and Liquid Crystals*, **2006**, 459, 45/[325]-55/[335]	0.5	20
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108	Vacuum-Assisted Microfluidic Lithography of Ceramic Microstructures. *Journal of the American Ceramic Society*, **2005**, 88, 1171-1174	3.8	20
107	Sol-Gel derived Ga-In-Zn-O Semiconductor Layers for Solution-Processed Thin-Film Transistors. *Journal of the Korean Physical Society*, **2008**, 53, 218-222	0.6	20
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