Hyunjung Shin

List of Publications by Year
in descending order

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205	12,024	28274	29157
papers	citations	55 h-index	104 g-index

213	213	213	15335
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	c-Axis-Oriented Platelets of Crystalline Hydroxyapatite in Biomimetic Intrafibrillar Mineralization of Polydopamine-Functionalized Collagen Type I. ACS Omega, 2022, 7, 4821-4831.	3.5	12
2	Natural bone-mimicking nanopore-incorporated hydroxyapatite scaffolds for enhanced bone tissue regeneration. Biomaterials Research, 2022, 26, 7.	6.9	27
3	Enhanced band-filling effect in halide perovskites via hydrophobic conductive linkers. Cell Reports Physical Science, 2022, 3, 100800.	5.6	3
4	Dynamic structural property of organic-inorganic metal halide perovskite. IScience, 2021, 24, 101959.	4.1	29
5	Stabilizing Mixed Halide Lead Perovskites against Photoinduced Phase Segregation by A-Site Cation Alloying. ACS Energy Letters, 2021, 6, 837-847.	17.4	34
6	High-Valent Iodoplumbate-Rich Perovskite Precursor Solution via Solar Illumination for Reproducible Power Conversion Efficiency. Journal of Physical Chemistry Letters, 2021, 12, 1676-1682.	4.6	12
7	Charge Trapping in Amorphous Dielectrics for Secure Charge Storage. ACS Applied Materials & Interfaces, 2021, 13, 11507-11514.	8.0	6
8	Stabilization of 3-D trigonal phase in guanidinium (C(NH2)3) lead triiodide (GAPbI3) films. Applied Surface Science, 2021, 542, 148575.	6.1	12
9	Unusual Hole Transfer Dynamics of the NiO Layer in Methylammonium Lead Tri-iodide Absorber Solar Cells. Journal of Physical Chemistry Letters, 2021, 12, 2770-2779.	4.6	12
10	Stem cell spheroid engineering with osteoinductive and ROS scavenging nanofibers for bone regeneration. Biofabrication, 2021, 13, 034101.	7.1	18
11	Metalâ€Assisted Efficient Nanotubular Electrocatalyst of MoS₂ for Hydrogen Production. ChemCatChem, 2021, 13, 3237-3246.	3.7	2
12	Amorphous TiO₂ Coatings Stabilize Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 3332-3341.	17.4	38
13	Cyclohexylammoniumâ€Based 2D/3D Perovskite Heterojunction with Funnelâ€Like Energy Band Alignment for Efficient Solar Cells (23.91%). Advanced Energy Materials, 2021, 11, 2102236.	19.5	77
14	Wideâ€Bandgap Perovskite/Gallium Arsenide Tandem Solar Cells. Advanced Energy Materials, 2020, 10, 1903085.	19.5	49
15	Achieving Reproducible and High-Efficiency (>21%) Perovskite Solar Cells with a Presynthesized FAPbI₃ Powder. ACS Energy Letters, 2020, 5, 360-366.	17.4	139
16	Osteogenic Properties of Novel Methylsulfonylmethane-Coated Hydroxyapatite Scaffold. International Journal of Molecular Sciences, 2020, 21, 8501.	4.1	7
17	High-Efficiency Perovskite Solar Cells. Chemical Reviews, 2020, 120, 7867-7918.	47.7	1,480
18	Characteristics of 10-Methacryloyloxidecyl Dihydrogen Phosphate Monomer in Self-Etching Two-Bottled Dental Adhesive System: Comparison with Commercial Products. Materials, 2020, 13, 3553.	2.9	3

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19	Stabilization of NiFe Layered Double Hydroxides on n-Si by an Activated TiO₂ Interlayer for Efficient Solar Water Oxidation. ACS Applied Energy Materials, 2020, 3, 12298-12307.	5.1	17
20	On the Crystallization of Hydroxyapatite under Hydrothermal Conditions: Role of Sebacic Acid as an Additive. ACS Omega, 2020, 5, 27204-27210.	3.5	40
21	Tailored 2D/3D Halide Perovskite Heterointerface for Substantially Enhanced Endurance in Conducting Bridge Resistive Switching Memory. ACS Applied Materials & Interfaces, 2020, 12, 17039-17045.	8.0	55
22	Ultrathin Hematite on Mesoporous WO₃ from Atomic Layer Deposition for Minimal Charge Recombination. ACS Sustainable Chemistry and Engineering, 2020, 8, 11358-11367.	6.7	23
23	Hole trap, charge transfer and photoelectrochemical water oxidation in thickness-controlled TiO2 anatase thin films. Applied Surface Science, 2020, 529, 147020.	6.1	13
24	Tandem Solar Cells: Wideâ€Bandgap Perovskite/Gallium Arsenide Tandem Solar Cells (Adv. Energy Mater.) Tj ETQq0 0 0 rgBT /Overlock 1	19.5	3
25	High Capacity and Reversibility of Oxygenâ€Vacancyâ€Controlled MoO 3 on Cu in Liâ€Ion Batteries: Unveiling Storage Mechanism in Binderâ€Free MoO 3â^' x Anodes. Energy Technology, 2020, 8, 1901502.	3.8	14
26	Role of Sulfur Incorporation in p-Type Nickel Oxide (p-NiO) on n-Type Silicon (n-Si) Photoelectrodes for Water Oxidation Reactions. ACS Applied Energy Materials, 2020, 3, 4255-4264.	5.1	9
27	Organic-inorganic hybrid lead halides as absorbers in perovskite solar cells: a debate on ferroelectricity. Journal Physics D: Applied Physics, 2020, 53, 493002.	2.8	26
28	Grain Boundary Healing of Organicâ€“Inorganic Halide Perovskites for Moisture Stability. Nano Letters, 2019, 19, 6498-6505.	9.1	24
29	Enhanced stability of guanidinium-based organic-inorganic hybrid lead triiodides in resistance switching. APL Materials, 2019, 7, .	5.1	12
30	Hot Scientific Debate on Halide Perovskites: Fundamentals, Photovoltaics, and Optoelectronics at Eighth Sungkyun International Solar Forum 2019 (SISF 2019). ACS Energy Letters, 2019, 4, 2475-2479.	17.4	5
31	Heterojunction Photoanode of Atomic-Layer-Deposited MoS₂ on Single-Crystalline CdS Nanorod Arrays. ACS Applied Materials & Interfaces, 2019, 11, 37586-37594.	8.0	47
32	Atomic layer deposition for efficient and stable perovskite solar cells. Chemical Communications, 2019, 55, 2403-2416.	4.1	76
33	Atomic layer deposition of a SnO₂ electron-transporting layer for planar perovskite solar cells with a power conversion efficiency of 18.3%. Chemical Communications, 2019, 55, 2433-2436.	4.1	77
34	Aligned Heterointerfaceâ€Induced 1Tâ€MoS₂ Monolayer with Nearâ€Ideal Gibbs Free for Stable Hydrogen Evolution Reaction. Small, 2019, 15, e1804903.	10.0	63
35	Synergistic Effect of Porous Hydroxyapatite Scaffolds Combined with Bioactive Glass/Poly(lactic-co-glycolic acid) Composite Fibers Promotes Osteogenic Activity and Bioactivity. ACS Omega, 2019, 4, 2302-2310.	3.5	21
36	Bifacial stamping for high efficiency perovskite solar cells. Energy and Environmental Science, 2019, 12, 308-321.	30.8	91

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37	Non-equilibrium fractal growth of MoS₂ for electrocatalytic hydrogen evolution. CrystEngComm, 2019, 21, 478-486.	2.6	10
38	Heteroepitaxy of GaP on silicon for efficient and cost-effective photoelectrochemical water splitting. Journal of Materials Chemistry A, 2019, 7, 8550-8558.	10.3	19
39	Metal Chalcogenides on Silicon Photocathodes for Efficient Water Splitting: A Mini Overview. Catalysts, 2019, 9, 149.	3.5	56
40	Perovskite Cluster-Containing Solution for Scalable D-Bar Coating toward High-Throughput Perovskite Solar Cells. ACS Energy Letters, 2019, 4, 1189-1195.	17.4	134
41	Semiconducting TiO2â˜xSx thin films by atomic layer deposition of TiS2 and its oxidation in ambient. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	2.1	12
42	In Operando Stacking of Reduced Graphene Oxide for Active Hydrogen Evolution. ACS Applied Materials & Interfaces, 2019, 11, 43460-43465.	8.0	17
43	Incorporation of Ge in Cu2ZnSnS4 thin film in a Zn-poor composition range. Materials Science in Semiconductor Processing, 2019, 89, 194-200.	4.0	11
44	Fabrication of a Stable New Polymorph Gold Nanowire with Sixfold Rotational Symmetry. Advanced Materials, 2018, 30, e1706261.	21.0	16
45	Solar Cells: Oriented Grains with Preferred Lowâ€Angle Grain Boundaries in Halide Perovskite Films by Pressureâ€Induced Crystallization (Adv. Energy Mater. 10/2018). Advanced Energy Materials, 2018, 8, 1870045.	19.5	6
46	Defect-Free Graphene Synthesized Directly at 150 Â°C via Chemical Vapor Deposition with No Transfer. ACS Nano, 2018, 12, 2008-2016.	14.6	55
47	Enthusiastic Discussions on Halide Perovskite Materials beyond Photovoltaics at Sungkyun International Solar Forum 2017 (SISF2017). ACS Energy Letters, 2018, 3, 199-203.	17.4	2
48	Oriented Grains with Preferred Lowâ€Angle Grain Boundaries in Halide Perovskite Films by Pressureâ€Induced Crystallization. Advanced Energy Materials, 2018, 8, 1702369.	19.5	74
49	Universal Approach toward Hysteresis-Free Perovskite Solar Cell via Defect Engineering. Journal of the American Chemical Society, 2018, 140, 1358-1364.	13.7	708
50	Metallic Ni₃S₂ Films Grown by Atomic Layer Deposition as an Efficient and Stable Electrocatalyst for Overall Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 12807-12815.	8.0	78
51	Mixed-Phase (2H and 1T) MoS2 Catalyst for a Highly Efficient and Stable Si Photocathode. Catalysts, 2018, 8, 580.	3.5	20
52	Binderâ€“Free Nanotubular Heteroâ€Structured Anodes of Î±â€“Fe₂O₃ (Hematite) and TiN for Liâ€“Ion Battery. ChemistrySelect, 2018, 3, 11027-11034.	1.5	3
53	Perovskite Solar Cells with Inorganic Electronâ€and Holeâ€Transport Layers Exhibiting Longâ€Term (â‰ˆ500) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 e1801010.	21.0	174
54	Atomic-Layer Deposition into 2- versus 3-Dimensionally Ordered Nanoporous Media: Pore Size or Connectivity?. Chemistry of Materials, 2018, 30, 4748-4754.	6.7	14

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55	p-Type CuCrO₂ particulate films as the hole transporting layer for CH₃NH₃PbI₃ perovskite solar cells. RSC Advances, 2018, 8, 27956-27962.	3.6	48
56	Perovskite Solar Cells: Perovskite Solar Cells with Inorganic Electronâ€•and Holeâ€Transport Layers Exhibiting Longâ€Term (â‰ˆ500 h) Stability at 85 Â°C under Continuous 1 Sun Illumination in Ambient Air (Adv. Mater. 29/2018). Advanced Materials, 2018, 30, 1870210.	21.0	5
57	Halide Perovskite Nanopillar Photodetector. ACS Nano, 2018, 12, 8564-8571.	14.6	70
58	Nanometer Scale Confined Growth of Single-Crystalline Gold Nanowires via Photocatalytic Reduction. ACS Applied Materials & Interfaces, 2018, 10, 20929-20937.	8.0	3
59	In-Situ Formed Type I Nanocrystalline Perovskite Film for Highly Efficient Light-Emitting Diode. ACS Nano, 2017, 11, 3311-3319.	14.6	161
60	Bulk layered heterojunction as an efficient electrocatalyst for hydrogen evolution. Science Advances, 2017, 3, e1602215.	10.3	85
61	Self-oriented Sb₂Se₃ nanoneedle photocathodes for water splitting obtained by a simple spin-coating method. Journal of Materials Chemistry A, 2017, 5, 2180-2187.	10.3	91
62	Defect-Induced Epitaxial Growth for Efficient Solar Hydrogen Production. Nano Letters, 2017, 17, 6676-6683.	9.1	96
63	Edge-On MoS₂ Thin Films by Atomic Layer Deposition for Understanding the Interplay between the Active Area and Hydrogen Evolution Reaction. Chemistry of Materials, 2017, 29, 7604-7614.	6.7	82
64	Origin of Hysteresis in CH₃NH₃PbI₃ Perovskite Thin Films. Advanced Functional Materials, 2017, 27, 1701924.	14.9	86
65	A scanning probe mounted on a field-effect transistor: Characterization of ion damage in Si. Micron, 2017, 101, 197-205.	2.2	2
66	Effect of Rubidium Incorporation on the Structural, Electrical, and Photovoltaic Properties of Methylammonium Lead Iodide-Based Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 41898-41905.	8.0	51
67	Solution-processed SnO₂thin film for a hysteresis-free planar perovskite solar cell with a power conversion efficiency of 19.2%. Journal of Materials Chemistry A, 2017, 5, 24790-24803.	10.3	143
68	Formation of yttria-stabilized zirconia nanotubes by atomic layer deposition toward efficient solid electrolytes. Nano Convergence, 2017, 4, 31.	12.1	4
69	Vertically Aligned Si Nanowire Arrayâ€”A Promising Anode Material for Li-Ion Battery. Energy and Environment Focus, 2017, 6, 83-87.	0.3	0
70	Delocalized Electron Accumulation at Nanorod Tips: Origin of Efficient H₂ Generation. Advanced Functional Materials, 2016, 26, 4527-4534.	14.9	60
71	Influence of annealing atmosphere on the electrical conductivity of copper nanoparticle films. Electronic Materials Letters, 2016, 12, 338-342.	2.2	3
72	An ultra-thin, un-doped NiO hole transporting layer of highly efficient (16.4%) organicâ€“inorganic hybrid perovskite solar cells. Nanoscale, 2016, 8, 11403-11412.	5.6	307

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73	Fine tuning of emission property of white light-emitting diodes by quantum-dot-coating on YAG:Ce nanophosphors. Applied Surface Science, 2016, 379, 467-473.	6.1	22
74	Interface Properties of Atomic-Layer-Deposited Al₂O₃ Thin Films on Ultraviolet/Ozone-Treated Multilayer MoS₂ Crystals. ACS Applied Materials & Interfaces, 2016, 8, 11189-11193.	8.0	77
75	Enhancement of light-matter interaction and photocatalytic efficiency of Au/TiO_2 hybrid nanowires. Optics Express, 2016, 24, 15171.	3.4	5
76	A Sharp Focus on Perovskite Solar Cells at Sungkyun International Solar Forum (SISF). ACS Energy Letters, 2016, 1, 500-502.	17.4	4
77	Enhanced electron lifetime in dye-sensitised solar cells via suppression of electron-hole recombination. International Journal of Nanotechnology, 2016, 13, 365.	0.2	0
78	Self-formed grain boundary healing layer for highly efficient CH3NH3PbI3 perovskite solar cells. Nature Energy, 2016, 1, .	39.5	902
79	Photoelectrochemical Properties of Vertically Aligned CuInS₂ Nanorod Arrays Prepared via Template-Assisted Growth and Transfer. ACS Applied Materials & Interfaces, 2016, 8, 425-431.	8.0	30
80	Low Temperature Synthesis of Rutile TiO₂ Nanocrystals and Their Photovoltaic and Photocatalytic Properties. Journal of Nanoscience and Nanotechnology, 2015, 15, 4516-4521.	0.9	18
81	Nanotubular Heterostructure of Tin Dioxide/Titanium Dioxide as a Binderâ€Free Anode in Lithiumâ€Ion Batteries. ChemSusChem, 2015, 8, 2363-2371.	6.8	25
82	Strong anisotropy of ferroelectricity in lead-free bismuth silicate. Nanoscale, 2015, 7, 11561-11565.	5.6	26
83	Electrochemical performance of amorphous and anatase TiO₂ nanotube array-based anodes fabricated by atomic layer deposition. Materials Research Innovations, 2015, 19, S5-694-S5-699.	2.3	6
84	New Hybrid Hole Extraction Layer of Perovskite Solar Cells with a Planar pâ€“iâ€“n Geometry. Journal of Physical Chemistry C, 2015, 119, 27285-27290.	3.1	71
85	Toward Coordinated Colloids: Site-Selective Growth of Titania on Patchy Silica Particles. Scientific Reports, 2015, 5, 9339.	3.3	9
86	Graphene-Templated Synthesis of c-Axis Oriented Sb₂Te₃ Nanoplates by the Microwave-Assisted Solvothermal Method. Chemistry of Materials, 2015, 27, 2315-2321.	6.7	21
87	Enhanced stabilisation of tetragonal (t)-ZrO₂ in the controlled nanotubular geometry. RSC Advances, 2015, 5, 80472-80479.	3.6	6
88	Wafer-scale single-domain-like graphene by defect-selective atomic layer deposition of hexagonal ZnO. Nanoscale, 2015, 7, 17702-17709.	5.6	19
89	Screening effect on photovoltaic performance in ferroelectric CH₃NH₃PbI₃perovskite thin films. Journal of Materials Chemistry A, 2015, 3, 20352-20358.	10.3	22
90	Thermopower engineering of Bi₂Te₃without alloying: the interplay between nanostructuring and defect activation. Semiconductor Science and Technology, 2014, 29, 064003.	2.0	26

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91	Reversible phase transformation of titania (anatase) nanotubes upon electrochemical lithium-intercalation observed by ex situ transmission electron microscopy. Journal of Power Sources, 2014, 249, 59-65.	7.8	17
92	Cerium-Doped Yttrium Aluminum Garnet Hollow Shell Phosphors Synthesized via the Kirkendall Effect. ACS Applied Materials & Interfaces, 2014, 6, 1145-1151.	8.0	14
93	Initial Self-Ordering of Porous Anodic Alumina: Transition from Polydispersity to Monodispersity. Journal of Physical Chemistry C, 2014, 118, 26789-26795.	3.1	12
94	Spatial Charge Separation in Asymmetric Structure of Au Nanoparticle on TiO₂ Nanotube by Light-Induced Surface Potential Imaging. Nano Letters, 2014, 14, 4413-4417.	9.1	94
95	Understanding Photoluminescence of Monodispersed Crystalline Anatase TiO₂ Nanotube Arrays. Journal of Physical Chemistry C, 2014, 118, 9726-9732.	3.1	46
96	Kinetics of nanodomain growth in ferroelectric artificial superlattices. Scripta Materialia, 2013, 69, 501-504.	5.2	0
97	Multisegmented nanotubes by surface-selective atomic layer deposition. Journal of Materials Chemistry C, 2013, 1, 621-625.	5.5	11
98	Rapid, conformal gas-phase formation of silica (SiO2) nanotubes from water condensates. Nanoscale, 2013, 5, 5825.	5.6	7
99	Confined crystallization of anatase TiO2 nanotubes and their implications on transport properties. Journal of Materials Chemistry A, 2013, 1, 14080.	10.3	26
100	Schottky nanocontact on single crystalline ZnO nanorod using conductive atomic force microscopy. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	10
101	Effects of ion beam-irradiated Si on atomic force microscope local oxidation. Chemical Physics Letters, 2013, 566, 44-49.	2.6	1
102	Visualization of three dimensional domain structures in ferroelectric PbTiO3 nanotubes. Applied Physics Letters, 2013, 103, .	3.3	15
103	Direct patterning of metal oxides by hard templates and atomic layer deposition. International Journal of Nanotechnology, 2013, 10, 692.	0.2	1
104	Nano-domain engineering in ultrashort-period ferroelectric superlattices. Applied Physics Letters, 2012, 100, 222906.	3.3	6
105	Size Effects on the Stabilization and Growth of Tetragonal ZrO₂ Crystallites in a Nanotubular Structure. Journal of Nanoscience and Nanotechnology, 2012, 12, 3177-3180.	0.9	4
106	Layer-by-layer assembled enzyme multilayers with adjustable memory performance and low power consumption via molecular-level control. Journal of Materials Chemistry, 2012, 22, 4645.	6.7	21
107	Evaluation of metalâ€“nanowire electrical contacts by measuring contact end resistance. Nanotechnology, 2012, 23, 245201.	2.6	10
108	Nanoscale size effect of titania (anatase) nanotubes with uniform wall thickness as high performance anode for lithium-ion secondary battery. Journal of Power Sources, 2012, 204, 162-167.	7.8	65

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109	Contact area lithography and pattern transfer of self-assembled organic monolayers on SiO2/Si substrates. Chemical Communications, 2011, 47, 5145.	4.1	8
110	High-Resolution Field Effect Sensing of Ferroelectric Charges. Nano Letters, 2011, 11, 1428-1433.	9.1	38
111	Lateral redistribution of trapped charges in nitride/oxide/Si (NOS) investigated by electrostatic force microscopy. Nanoscale, 2011, 3, 2560.	5.6	14
112	Surface modification and fabrication of 3D nanostructures by atomic layer deposition. MRS Bulletin, 2011, 36, 887-897.	3.5	59
113	Observation of mechanical fracture and corresponding domain structure changes of polycrystalline PbTiO₃ nanotubes. Physica Status Solidi - Rapid Research Letters, 2011, 5, 59-61.	2.4	9
114	Nanoscale retentionâ€loss dynamics of polycrystalline PbTiO₃ nanotubes. Physica Status Solidi - Rapid Research Letters, 2011, 5, 289-291.	2.4	7
115	Multilevel Data Storage Memory Devices Based on the Controlled Capacitive Coupling of Trapped Electrons. Advanced Materials, 2011, 23, 2064-2068.	21.0	73
116	A Quasiâ€Inverse Opal Layer Based on Highly Crystalline TiO₂ Nanoparticles: A New Lightâ€Scattering Layer in Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2011, 1, 546-550.	19.5	71
117	Nanowireâ€Based Threeâ€Dimensional Transparent Conducting Oxide Electrodes for Extremely Fast Charge Collection. Advanced Energy Materials, 2011, 1, 829-835.	19.5	50
118	3D Transparent Conducting Oxides: Nanowireâ€Based Threeâ€Dimensional Transparent Conducting Oxide Electrodes for Extremely Fast Charge Collection (Adv. Energy Mater. 5/2011). Advanced Energy Materials, 2011, 1, 702-702.	19.5	0
119	Charge diffusion in silicon nitrides: Scalability assessment of nitride based flash memory. , 2011, , .		8
120	Synthesis of Step-Shaped Bismuth Nanowiresâ€"An Approach Towards the Fabrication of Self-Homojunction. Electrochemical and Solid-State Letters, 2011, 14, E21.	2.2	5
121	Memory effect of a single-walled carbon nanotube on nitride-oxide structure under various bias conditions. Applied Physics Letters, 2010, 96, .	3.3	7
122	Bias-Stress-Stable Solution-Processed Oxide Thin Film Transistors. ACS Applied Materials & Interfaces, 2010, 2, 611-615.	8.0	138
123	Fabrication and applications of metal-oxide nano-tubes. Jom, 2010, 62, 44-49.	1.9	25
124	Nonvolatile memory properties of Pt nanoparticle-embedded TiO₂nanocomposite multilayers via electrostatic layer-by-layer assembly. Nanotechnology, 2010, 21, 185704.	2.6	27
125	Aging Dynamics of Solution-Processed Amorphous Oxide Semiconductor Field Effect Transistors. ACS Applied Materials & Interfaces, 2010, 2, 626-632.	8.0	35
126	Hierarchical Titania Nanotubes with Self-Branched Crystalline Nanorods. ACS Applied Materials & Interfaces, 2010, 2, 1581-1587.	8.0	25

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127	Al-Doped ZnO Thin Film: A New Transparent Conducting Layer for ZnO Nanowire-Based Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 7185-7189.	3.1	134
128	Origin of surface potential change during ferroelectric switching in epitaxial PbTiO3 thin films studied by scanning force microscopy. Applied Physics Letters, 2009, 94, 032907.	3.3	94
129	Spontaneous Lamellar Alignment in Thicknessâ€Modulated Block Copolymer Films. Advanced Functional Materials, 2009, 19, 2584-2591.	14.9	63
130	Tunable Memory Characteristics of Nanostructured, Nonvolatile Charge Trap Memory Devices Based on a Binary Mixture of Metal Nanoparticles as a Charge Trapping Layer. Advanced Materials, 2009, 21, 178-183.	21.0	97
131	Nanoscale Ampoule Fabrication by Capillary Autoclosing. Small, 2009, 5, 1936-1941.	10.0	5
132	In situ X-ray diffraction studies of mixed LiMn2O4â€“LiNi1/3Co1/3Mn1/3O2 composite cathode in Li-ion cells during chargeâ€“discharge cycling. Journal of Power Sources, 2009, 192, 652-659.	7.8	105
133	Resistive Switching Memory Devices Composed of Binary Transition Metal Oxides Using Solâ^'Gel Chemistry. Langmuir, 2009, 25, 4274-4278.	3.5	49
134	Nonvolatile Resistive Switching Memory Properties of Thermally Annealed Titania Precursor/Polyelectrolyte Multilayers. Langmuir, 2009, 25, 11276-11281.	3.5	26
135	One Material, Multiple Faces - Nanostructured Bismuth. ECS Transactions, 2009, 25, 25-33.	0.5	5
136	Controlled Fabrication of Multiwall Anatase TiO₂ Nanotubular Architectures. Chemistry of Materials, 2009, 21, 2574-2576.	6.7	51
137	V-shaped metalâ€“oxideâ€“semiconductor transistor probe with nano tip for surface electric properties. Ultramicroscopy, 2008, 108, 1094-1100.	1.9	16
138	Controlling the Thickness of the Surface Oxide Layer on Cu Nanoparticles for the Fabrication of Conductive Structures by Inkâ€Jet Printing. Advanced Functional Materials, 2008, 18, 679-686.	14.9	459
139	Random Circuit Breaker Network Model for Unipolar Resistance Switching. Advanced Materials, 2008, 20, 1154-1159.	21.0	330
140	Integrated Catalytic Activity of Patterned Multilayer Films Based on pHâ€Induced Electrostatic Properties of Enzymes. Advanced Materials, 2008, 20, 1843-1848.	21.0	22
141	Heterogeneous Interfacial Properties of Inkâ€Jetâ€Printed Silver Nanoparticulate Electrode and Organic Semiconductor. Advanced Materials, 2008, 20, 3084-3089.	21.0	21
142	Intercellular interaction observed by atomic force microscopy. Ultramicroscopy, 2008, 108, 1148-1151.	1.9	12
143	Template-Directed Synthesis of Oxide Nanotubes: Fabrication, Characterization, and Applications. Chemistry of Materials, 2008, 20, 756-767.	6.7	289
144	Fabrication and evaluation of V-shaped MOS transistor probe. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	1

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145	Template-directed gas-phase fabrication of oxide nanotubes. Journal of Materials Chemistry, 2008, 18, 1362.	6.7	57
146	Controllable Feature Sizes of Highly Conductive Poly(3,4-Ethylenedioxythiophene) Nanofilms Patterned on SiO2 Surface. Journal of Nanoscience and Nanotechnology, 2008, 8, 5080-5084.	0.9	0
147	Nonvolatile nanocrystal charge trap flash memory devices using a micellar route to ordered arrays of cobalt nanocrystals. Applied Physics Letters, 2007, 91, 153506.	3.3	42
148	Photopatternable Organosiloxane-Based Inorganicâ^'Organic SiO₂â^'ZrO₂ Hybrid Dielectrics for Organic Thin Film Transistors. Journal of Physical Chemistry C, 2007, 111, 16083-16087.	3.1	18
149	Facile Route to Aligned One-Dimensional Arrays of Colloidal Nanoparticles. Chemistry of Materials, 2007, 19, 1531-1533.	6.7	12
150	Patterning a Two-Dimensional Colloidal Crystal by Water-Mediated Particle Transfer Printing. Chemistry of Materials, 2007, 19, 5553-5556.	6.7	20
151	Fabrication of Monodisperse Asymmetric Colloidal Clusters by Using Contact Area Lithography (CAL). Journal of the American Chemical Society, 2007, 129, 14232-14239.	13.7	44
152	Iodine-catalyzed chemical vapor deposition of Cu on MPTMS monolayer surface in a low deposition temperature regime. Surface and Coatings Technology, 2007, 201, 9432-9436.	4.8	6
153	Effects of ion damage on the surface of ITO films during plasma treatment. Applied Surface Science, 2007, 253, 8928-8932.	6.1	16
154	Layer-by-layer assembled charge-trap memory devices with adjustable electronic properties. Nature Nanotechnology, 2007, 2, 790-795.	31.5	251
155	Random and localized resistive switching observation in Pt/NiO/Pt. Physica Status Solidi - Rapid Research Letters, 2007, 1, 280-282.	2.4	75
156	Ultra-thin and isolated dots in polycrystalline lead zirconate titanate films. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2333-2339.	3.0	1
157	Contact Area Lithography (CAL):Â A New Approach to Direct Formation of Nanometric Chemical Patterns. Chemistry of Materials, 2006, 18, 1085-1088.	6.7	45
158	Direct-write fabrication of colloidal photonic crystal microarrays by ink-jet printing. Journal of Colloid and Interface Science, 2006, 298, 713-719.	9.4	130
159	Formation and process optimization of scanning resistive probe. Journal of Vacuum Science & Technology B, 2006, 24, 2417.	1.3	6
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