

Nitin P Pature

List of Publications by Year in descending order

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250
papers

26,788
citations

4942

84
h-index

6630

156
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all docs

256
docs citations

256
times ranked

16662
citing authors

#	ARTICLE	IF	CITATIONS
1	CNT-based bifacial perovskite solar cells toward highly efficient 4-terminal tandem photovoltaics. <i>Energy and Environmental Science</i> , 2022, 15, 1536-1544.	15.6	39
2	Delineation and Passivation of Grain-Boundary Channels in Metal Halide Perovskite Thin Films for Solar Cells. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	4
3	Rate-dependent deformation of amorphous sulfide glass electrolytes for solid-state batteries. <i>Cell Reports Physical Science</i> , 2022, 3, 100845.	2.8	12
4	Time-resolved vibrational-pump visible-probe spectroscopy for thermal conductivity measurement of metal-halide perovskites. <i>Review of Scientific Instruments</i> , 2022, 93, .	0.6	5
5	Lead removal at trace concentrations from water by inactive yeast cells. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	8
6	Lead-Free Flexible Perovskite Solar Cells with Interfacial Native Oxide Have >10% Efficiency and Simultaneously Enhanced Stability and Reliability. <i>ACS Energy Letters</i> , 2022, 7, 2256-2264.	8.8	19
7	Low thermal conductivity in high-entropy rare-earth pyrosilicate solid-solutions for thermal environmental barrier coatings. <i>Scripta Materialia</i> , 2021, 191, 40-45.	2.6	59
8	Linking melem with conjugated Schiff-base bonds to boost photocatalytic efficiency of carbon nitride for overall water splitting. <i>Nanoscale</i> , 2021, 13, 9315-9321.	2.8	17
9	Correlations between Electrochemical Ion Migration and Anomalous Device Behaviors in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 1003-1014.	8.8	39
10	Interpenetrating interfaces for efficient perovskite solar cells with high operational stability and mechanical robustness. <i>Nature Communications</i> , 2021, 12, 973.	5.8	189
11	High-performance methylammonium-free ideal-band-gap perovskite solar cells. <i>Matter</i> , 2021, 4, 1365-1376.	5.0	51
12	On the multiplying factor for the estimation of the average grain size in thin films. <i>Scripta Materialia</i> , 2021, 196, 113748.	2.6	4
13	Real-Time Investigation of Sn(II) Oxidation in Pb-Free Halide Perovskites by X-ray Absorption and Mössbauer Spectroscopy. <i>ACS Applied Energy Materials</i> , 2021, 4, 4327-4332.	2.5	9
14	Interfacial toughening with self-assembled monolayers enhances perovskite solar cell reliability. <i>Science</i> , 2021, 372, 618-622.	6.0	313
15	Knowledge extraction and transfer in data-driven fracture mechanics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	21
16	Crystallization behavior of air-plasma-sprayed ytterbium-silicate-based environmental barrier coatings. <i>Journal of the European Ceramic Society</i> , 2021, 41, 3696-3705.	2.8	37
17	Flexible perovskite solar cells with simultaneously improved efficiency, operational stability, and mechanical reliability. <i>Joule</i> , 2021, 5, 1587-1601.	11.7	120
18	The effect of atmosphere on the flash-sintering of nanoscale titania ceramics. <i>Scripta Materialia</i> , 2021, 199, 113894.	2.6	10

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19	High-temperature interactions between Ytria-stabilized zirconia thermal barrier coatings and Na-Rich calcia-magnesia-aluminosilicate deposits. <i>Ceramics International</i> , 2021, 47, 19505-19514.	2.3	2
20	<i>In situ</i> transfer of CH ₃ NH ₃ PbI ₃ single crystals in mesoporous scaffolds for efficient perovskite solar cells. <i>Chemical Science</i> , 2020, 11, 474-481.	3.7	19
21	Sub-1.4eV bandgap inorganic perovskite solar cells with long-term stability. <i>Nature Communications</i> , 2020, 11, 151.	5.8	92
22	Fracture, fatigue, and sliding-wear behavior of nanocomposites of alumina and reduced graphene-oxide. <i>Acta Materialia</i> , 2020, 186, 29-39.	3.8	35
23	High-temperature materials for power generation in gas turbines. , 2020, , 3-62.		13
24	Arrays of Plasmonic Nanostructures for Absorption Enhancement in Perovskite Thin Films. <i>Nanomaterials</i> , 2020, 10, 1342.	1.9	13
25	Sea-salt-induced moderate-temperature degradation of thermally-sprayed MCrAlY bond-coats. <i>Surface and Coatings Technology</i> , 2020, 404, 126459.	2.2	6
26	Perovskite Solar Cells with Enhanced Fill Factors Using Polymer-Capped Solvent Annealing. <i>ACS Applied Energy Materials</i> , 2020, 3, 7231-7238.	2.5	19
27	σ - p orbital interaction <i>via</i> magnesium isovalent doping enhances optoelectronic properties of halide perovskites. <i>Chemical Communications</i> , 2020, 56, 15639-15642.	2.2	3
28	Mechanisms of exceptional grain growth and stability in formamidinium lead triiodide thin films for perovskite solar cells. <i>Acta Materialia</i> , 2020, 193, 10-18.	3.8	27
29	High-Performance Lead-Free Solar Cells Based on Tin-Halide Perovskite Thin Films Functionalized by a Divalent Organic Cation. <i>ACS Energy Letters</i> , 2020, 5, 2223-2230.	8.8	96
30	Electron-beam-induced cracking in organic-inorganic halide perovskite thin films. <i>Scripta Materialia</i> , 2020, 187, 88-92.	2.6	16
31	Rare-earth pyrosilicate solid-solution environmental-barrier coating ceramics for resistance against attack by molten calcia-magnesia-aluminosilicate (CMAS) glass. <i>Journal of Materials Research</i> , 2020, 35, 2373-2384.	1.2	30
32	High-Toughness Inorganic Solid Electrolytes via the Use of Reduced Graphene Oxide. <i>Matter</i> , 2020, 3, 212-229.	5.0	36
33	Encapsulated X-Ray Detector Enabled by All-Inorganic Lead-Free Perovskite Film With High Sensitivity and Low Detection Limit. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 3191-3198.	1.6	40
34	High toughness carbon-nanotube-reinforced ceramics via ion-beam engineering of interfaces. <i>Carbon</i> , 2020, 163, 169-177.	5.4	19
35	A machine learning approach to fracture mechanics problems. <i>Acta Materialia</i> , 2020, 190, 105-112.	3.8	146
36	Anomalous 3D nanoscale photoconduction in hybrid perovskite semiconductors revealed by tomographic atomic force microscopy. <i>Nature Communications</i> , 2020, 11, 3308.	5.8	53

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37	The Synergism of DMSO and Diethyl Ether for Highly Reproducible and Efficient MA _{0.5} FA _{0.5} PbI ₃ Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2001300.	10.2	33
38	Facile healing of cracks in organic-inorganic halide perovskite thin films. <i>Acta Materialia</i> , 2020, 187, 112-121.	3.8	51
39	Effect of Grain Size on the Fracture Behavior of Organic-Inorganic Halide Perovskite Thin Films for Solar Cells. <i>Scripta Materialia</i> , 2020, 185, 47-50.	2.6	32
40	Enhanced Thermoelectric Performance in Lead-Free Inorganic CsSn _{1-x} Ge _x I ₃ Perovskite Semiconductors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11749-11753.	1.5	45
41	Asymmetric alkyl diamine based Dion-Jacobson low-dimensional perovskite solar cells with efficiency exceeding 15%. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9919-9926.	5.2	38
42	Enhancing Chemical Stability and Suppressing Ion Migration in CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells via Direct Backbone Attachment of Polyesters on Grain Boundaries. <i>Chemistry of Materials</i> , 2020, 32, 5104-5117.	3.2	64
43	Understanding and Engineering Grain Boundaries for High-Performance Halide Perovskite Photovoltaics. , 2020, , .		3
44	Quantum-Dot-Induced Cesium-Rich Surface Imparts Enhanced Stability to Formamidinium Lead Iodide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2019, 4, 1970-1975.	8.8	82
45	Direct Characterization of Carrier Diffusion in Halide-Perovskite Thin Films Using Transient Photoluminescence Imaging. <i>ACS Photonics</i> , 2019, 6, 2375-2380.	3.2	19
46	Carrier lifetime enhancement in halide perovskite via remote epitaxy. <i>Nature Communications</i> , 2019, 10, 4145.	5.8	93
47	Comprehensive Elucidation of Ion Transport and Its Relation to Hysteresis in Methylammonium Lead Iodide Perovskite Thin Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4029-4034.	1.5	16
48	Improved SnO ₂ Electron Transport Layers Solution-Deposited at Near Room Temperature for Rigid or Flexible Perovskite Solar Cells with High Efficiencies. <i>Advanced Energy Materials</i> , 2019, 9, 1900834.	10.2	100
49	Fusing Nanowires into Thin Films: Fabrication of Graded Heterojunction Perovskite Solar Cells with Enhanced Performance. <i>Advanced Energy Materials</i> , 2019, 9, 1900243.	10.2	45
50	Environmental degradation of high-temperature protective coatings for ceramic-matrix composites in gas-turbine engines. <i>Npj Materials Degradation</i> , 2019, 3, .	2.6	92
51	Effect of Grain Boundaries on Charge Transport in Methylammonium Lead Iodide Perovskite Thin Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5321-5325.	1.5	28
52	Highly stable and efficient all-inorganic lead-free perovskite solar cells with native-oxide passivation. <i>Nature Communications</i> , 2019, 10, 16.	5.8	430
53	Transmission Electron Microscopy of Halide Perovskite Materials and Devices. <i>Joule</i> , 2019, 3, 641-661.	11.7	94
54	Synthetic Approaches for Halide Perovskite Thin Films. <i>Chemical Reviews</i> , 2019, 119, 3193-3295.	23.0	454

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55	Lead-Free Dionâ€“Jacobson Tin Halide Perovskites for Photovoltaics. ACS Energy Letters, 2019, 4, 276-277.	8.8	101
56	Frontispiece: Bandgap Optimization of Perovskite Semiconductors for Photovoltaic Applications. Chemistry - A European Journal, 2018, 24, .	1.7	1
57	Continuous Grain-Boundary Functionalization for High-Efficiency Perovskite Solar Cells with Exceptional Stability. Chem, 2018, 4, 1404-1415.	5.8	165
58	Direct in situ observation of toughening mechanisms in nanocomposites of silicon nitride and reduced graphene-oxide. Scripta Materialia, 2018, 149, 40-43.	2.6	33
59	Cesium Titanium(IV) Bromide Thin Films Based Stable Lead-free Perovskite Solar Cells. Joule, 2018, 2, 558-570.	11.7	403
60	Earth-Abundant Nontoxic Titanium(IV)-based Vacancy-Ordered Double Perovskite Halides with Tunable 1.0 to 1.8 eV Bandgaps for Photovoltaic Applications. ACS Energy Letters, 2018, 3, 297-304.	8.8	314
61	Thermo-mechanical behavior of organic-inorganic halide perovskites for solar cells. Scripta Materialia, 2018, 150, 36-41.	2.6	100
62	Environmental-barrier coating ceramics for resistance against attack by molten calcia-magnesia-aluminosilicate (CMAS) glass: Part I, YAlO ₃ and Î ³ -Y ₂ Si ₂ O ₇ . Journal of the European Ceramic Society, 2018, 38, 3905-3913.	2.8	77
63	Environmental-barrier coating ceramics for resistance against attack by molten calcia-magnesia-aluminosilicate (CMAS) glass: Part II, Î ² -Yb ₂ Si ₂ O ₇ and Î ² -Sc ₂ Si ₂ O ₇ . Journal of the European Ceramic Society, 2018, 38, 3914-3924.	2.8	112
64	Exceptional Grain Growth in Formamidinium Lead Iodide Perovskite Thin Films Induced by the Î-to-Î± Phase Transformation. ACS Energy Letters, 2018, 3, 63-64.	8.8	33
65	Bandgap Optimization of Perovskite Semiconductors for Photovoltaic Applications. Chemistry - A European Journal, 2018, 24, 2305-2316.	1.7	103
66	Materials in the Aircraft Industry. , 2018, , 271-346.		2
67	Subgrain Special Boundaries in Halide Perovskite Thin Films Restrict Carrier Diffusion. ACS Energy Letters, 2018, 3, 2669-2670.	8.8	68
68	Towards multifunctional thermal environmental barrier coatings (TEBCs) based on rare-earth pyrosilicate solid-solution ceramics. Scripta Materialia, 2018, 154, 111-117.	2.6	122
69	Stable Formamidiniumâ€“Based Perovskite Solar Cells via In Situ Grain Encapsulation. Advanced Energy Materials, 2018, 8, 1800232.	10.2	78
70	Perovskite Solar Cells: Stable Formamidinium-Based Perovskite Solar Cells via In Situ Grain Encapsulation (Adv. Energy Mater. 22/2018). Advanced Energy Materials, 2018, 8, 1870101.	10.2	1
71	Lewisâ€“Adduct Mediated Grainâ€“Boundary Functionalization for Efficient Idealâ€“Bandgap Perovskite Solar Cells with Superior Stability. Advanced Energy Materials, 2018, 8, 1800997.	10.2	93
72	Toward Eco-friendly and Stable Perovskite Materials for Photovoltaics. Joule, 2018, 2, 1231-1241.	11.7	224

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73	Integration of a functionalized graphene nano-network into a planar perovskite absorber for high-efficiency large-area solar cells. <i>Materials Horizons</i> , 2018, 5, 868-873.	6.4	25
74	In situ direct observation of toughening in isotropic nanocomposites of alumina ceramic and multiwall carbon nanotubes. <i>Acta Materialia</i> , 2017, 127, 203-210.	3.8	37
75	Progress in Tandem Solar Cells Based on Hybrid Organic-Inorganic Perovskites. <i>Advanced Energy Materials</i> , 2017, 7, 1602400.	10.2	130
76	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1777-1803.	1.9	23
77	Resistance of $ZrO_2 \cdot Y_2O_3$ top coat in thermal/environmental barrier coatings to calcium-magnesium-aluminosilicate attack at 1500°C. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3175-3187.	1.9	30
78	Methylammonium-Mediated Evolution of Mixed Organic-Cation Perovskite Thin Films: A Dynamic Composition-Tuning Process. <i>Angewandte Chemie</i> , 2017, 129, 7782-7786.	1.6	12
79	Methylammonium-Mediated Evolution of Mixed Organic-Cation Perovskite Thin Films: A Dynamic Composition-Tuning Process. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7674-7678.	7.2	59
80	Fabrication of compact and stable perovskite films with optimized precursor composition in the fast-growing procedure. <i>Science China Materials</i> , 2017, 60, 608-616.	3.5	12
81	Inhomogeneous oxidation of ZrB ₂ -SiC ultra-high-temperature ceramic particulate composites and its mitigation. <i>Acta Materialia</i> , 2017, 129, 138-148.	3.8	47
82	Ions Matter: Description of the Anomalous Electronic Behavior in Methylammonium Lead Halide Perovskite Devices. <i>Advanced Functional Materials</i> , 2017, 27, 1606584.	7.8	65
83	High-Performance Formamidinium-Based Perovskite Solar Cells via Microstructure-Mediated $\tilde{\Gamma}$ -to- $\tilde{\Gamma}$ Phase Transformation. <i>Chemistry of Materials</i> , 2017, 29, 3246-3250.	3.2	99
84	Long Minority-Carrier Diffusion Length and Low Surface-Recombination Velocity in Inorganic Lead-Free CsSnI ₃ Perovskite Crystal for Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, 1604818.	7.8	164
85	Gas-Induced Formation/Transformation of Organic-Inorganic Halide Perovskites. <i>ACS Energy Letters</i> , 2017, 2, 2166-2176.	8.8	51
86	Homogenous Alloys of Formamidinium Lead Triiodide and Cesium Tin Triiodide for Efficient Bandgap Perovskite Solar Cells (<i>Angew. Chem.</i> 41/2017). <i>Angewandte Chemie</i> , 2017, 129, 12966-12966.	1.6	0
87	Homogenous Alloys of Formamidinium Lead Triiodide and Cesium Tin Triiodide for Efficient Bandgap Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12658-12662.	7.2	69
88	Homogenous Alloys of Formamidinium Lead Triiodide and Cesium Tin Triiodide for Efficient Bandgap Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2017, 129, 12832-12836.	1.6	3
89	Simultaneous Evolution of Uniaxially Oriented Grains and Ultralow-Density Grain-Boundary Network in CH ₃ NH ₃ PbI ₃ Perovskite Thin Films Mediated by Precursor Phase Metastability. <i>ACS Energy Letters</i> , 2017, 2, 2727-2733.	8.8	82
90	Exceptional Morphology-Preserving Evolution of Formamidinium Lead Triiodide Perovskite Thin Films via Organic-Cation Displacement. <i>Journal of the American Chemical Society</i> , 2016, 138, 5535-5538.	6.6	178

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91	Observation of phase-retention behavior of the $\text{HC}(\text{NH}_2)_2\text{Pb}_3$ black perovskite polymorph upon mesoporous TiO_2 scaffolds. <i>Chemical Communications</i> , 2016, 52, 7273-7275.	2.2	50
92	Mapping the Photoresponse of $\text{CH}_3\text{NH}_3\text{Pb}_3$ Hybrid Perovskite Thin Films at the Nanoscale. <i>Nano Letters</i> , 2016, 16, 3434-3441.	4.5	120
93	Physical chemistry of hybrid perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27024-27025.	1.3	7
94	Heterojunction-Depleted Lead-Free Perovskite Solar Cells with Coarse-Grained $\text{BaPb}_3\text{CsSn}_3$ Thin Films. <i>Advanced Energy Materials</i> , 2016, 6, 1601130.	10.2	247
95	Advanced structural ceramics in aerospace propulsion. <i>Nature Materials</i> , 2016, 15, 804-809.	13.3	1,134
96	Lithium-ion battery electrolyte mobility at nano-confined graphene interfaces. <i>Nature Communications</i> , 2016, 7, 12693.	5.8	26
97	Doping and alloying for improved perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17623-17635.	5.2	157
98	Thin-Film Transformation of NH_4Pb_3 to $\text{CH}_3\text{NH}_3\text{Pb}_3$ Perovskite: A Methylamine-Induced Conversion-Healing Process. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14723-14727.	7.2	83
99	Thin-Film Transformation of NH_4Pb_3 to $\text{CH}_3\text{NH}_3\text{Pb}_3$ Perovskite: A Methylamine-Induced Conversion-Healing Process. <i>Angewandte Chemie</i> , 2016, 128, 14943-14947.	1.6	17
100	Challenges in the ambient Raman spectroscopy characterization of methylammonium lead triiodide perovskite thin films. <i>Frontiers of Optoelectronics</i> , 2016, 9, 81-86.	1.9	27
101	Calcium-magnesia-alumino-silicate (CMAS)-induced degradation and failure of air plasma sprayed yttria-stabilized zirconia thermal barrier coatings. <i>Acta Materialia</i> , 2016, 105, 355-366.	3.8	181
102	Transformative Evolution of Organolead Triiodide Perovskite Thin Films from Strong Room-Temperature Solid-Gas Interaction between $\text{HPb}_3\text{-CH}_3\text{NH}_2$ Precursor Pair. <i>Journal of the American Chemical Society</i> , 2016, 138, 750-753.	6.6	156
103	Hybrid Perovskite Quantum Nanostructures Synthesized by Electrospray Antisolvent-Solvent Extraction and Intercalation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 854-861.	4.0	49
104	Manipulating Crystallization of Organolead Mixed-Halide Thin Films in Antisolvent Baths for Wide-Bandgap Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2232-2237.	4.0	91
105	Intercalation crystallization of phase-pure $\text{HC}(\text{NH}_2)_2\text{Pb}_3$ upon microstructurally engineered Pb_2 thin films for planar perovskite solar cells. <i>Nanoscale</i> , 2016, 8, 6265-6270.	2.8	41
106	Interaction between ceramic powder and molten calcium-magnesia-alumino-silicate (CMAS) glass, and its implication on CMAS-resistant thermal barrier coatings. <i>Scripta Materialia</i> , 2016, 112, 118-122.	2.6	56
107	Square-Centimeter Solution-Processed Planar $\text{CH}_3\text{NH}_3\text{Pb}_3$ Perovskite Solar Cells with Efficiency Exceeding 15%. <i>Advanced Materials</i> , 2015, 27, 6363-6370.	11.1	311
108	Methylamine-Gas-Induced Defect-Healing Behavior of $\text{CH}_3\text{NH}_3\text{Pb}_3$ Thin Films for Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9705-9709.	7.2	377

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109	The Compelling Case for Indentation as a Functional Exploratory and Characterization Tool. Journal of the American Ceramic Society, 2015, 98, 2671-2680.	1.9	67
110	Crystal Morphologies of Organolead Trihalide in Mesoscopic/Planar Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 2292-2297.	2.1	93
111	Microstructures of Organometal Trihalide Perovskites for Solar Cells: Their Evolution from Solutions and Characterization. Journal of Physical Chemistry Letters, 2015, 6, 4827-4839.	2.1	344
112	High-temperature creep deformation of coarse-grained boron carbide ceramics. Journal of the European Ceramic Society, 2015, 35, 1423-1429.	2.8	36
113	Growth control of compact $\text{CH}_3\text{NH}_3\text{PbI}_3$ thin films via enhanced solid-state precursor reaction for efficient planar perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 9249-9256.	5.2	128
114	Room-temperature crystallization of hybrid-perovskite thin films via solvent-solvent extraction for high-performance solar cells. Journal of Materials Chemistry A, 2015, 3, 8178-8184.	5.2	385
115	Heterojunction metal-oxide-metal Au-Fe ₃ O ₄ -Au single nanowire device for spintronics. Journal of Applied Physics, 2015, 117, 17D710.	1.1	5
116	Carrier separation and transport in perovskite solar cells studied by nanometre-scale profiling of electrical potential. Nature Communications, 2015, 6, 8397.	5.8	205
117	Additive-Modulated Evolution of $\text{HC}(\text{NH}_2)_2\text{PbI}_3$ Black Polymorph for Mesoscopic Perovskite Solar Cells. Chemistry of Materials, 2015, 27, 7149-7155.	3.2	197
118	Magnetoresistance characteristics in individual Fe ₃ O ₄ single crystal nanowire. Journal of Applied Physics, 2015, 117, 17E115.	1.1	9
119	$2\text{ZrO}_2 \cdot \text{Y}_2\text{O}_3$ Thermal Barrier Coatings Resistant to Degradation by Molten CMAS: Part I, Optical Basicity Considerations and Processing. Journal of the American Ceramic Society, 2014, 97, 3943-3949.	1.9	111
120	$2\text{ZrO}_2 \cdot \text{Y}_2\text{O}_3$ Thermal Barrier Coatings Resistant to Degradation by Molten CMAS: Part II, Interactions with Sand and Fly Ash. Journal of the American Ceramic Society, 2014, 97, 3950-3957.	1.9	82
121	In situ Raman spectroscopy studies of high-temperature degradation of thermal barrier coatings by molten silicate deposits. Scripta Materialia, 2014, 76, 29-32.	2.6	59
122	CMAS-Resistant Plasma Sprayed Thermal Barrier Coatings Based on Y ₂ O ₃ -Stabilized ZrO ₂ with Al ³⁺ and Ti ⁴⁺ Solute Additions. Journal of Thermal Spray Technology, 2014, 23, 708-715.	1.6	23
123	Direct Observation of Ferroelectric Domains in Solution-Processed $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Thin Films. Journal of Physical Chemistry Letters, 2014, 5, 3335-3339.	2.1	411
124	One-step, solution-processed formamidinium lead trihalide (FAPbI_3) Cl_x for mesoscopic perovskite-polymer solar cells. Physical Chemistry Chemical Physics, 2014, 16, 19206-19211.	1.3	130
125	Vapour-based processing of hole-conductor-free $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite/C ₆₀ fullerene planar solar cells. RSC Advances, 2014, 4, 28964-28967.	1.7	127
126	Room temperature one-pot solution synthesis of nanoscale CsSnI ₃ orthorhombic perovskite thin films and particles. Materials Letters, 2013, 110, 127-129.	1.3	58

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127	Ohmic contact formation between metal and AlGaIn/GaN heterostructure via graphene insertion. Applied Physics Letters, 2013, 102, .	1.5	25
128	Coal Ash Deposition on Nozzle Guide Vanes Part I: Experimental Characteristics of Four Coal Ash Types. Journal of Turbomachinery, 2013, 135, .	0.9	37
129	Defect states and disorder in charge transport in semiconductor nanowires. Journal of Applied Physics, 2013, 114, .	1.1	9
130	Thermal-barrier coatings for more efficient gas-turbine engines. MRS Bulletin, 2012, 37, 891-898.	1.7	1,079
131	Composition effects of thermal barrier coating ceramics on their interaction with molten Ca-Mg-Al-silicate (CMAS) glass. Acta Materialia, 2012, 60, 5437-5447.	3.8	208
132	Site-specific stamping of graphene micro-patterns over large areas using flexible stamps. Nanotechnology, 2012, 23, 235603.	1.3	5
133	Strengthening of transparent spinel/Si ₃ N ₄ nanocomposites. Acta Materialia, 2012, 60, 1570-1575.	3.8	28
134	Nanostructured, Infrared-Transparent Magnesium-Aluminate Spinel with Superior Mechanical Properties. International Journal of Applied Ceramic Technology, 2012, 9, 83-90.	1.1	38
135	Plasma sprayed gadolinium zirconate thermal barrier coatings that are resistant to damage by molten Ca-Mg-Al-silicate glass. Surface and Coatings Technology, 2012, 206, 3911-3916.	2.2	110
136	Microstructural effects on the sliding wear of transparent magnesium-aluminate spinel. Journal of the European Ceramic Society, 2012, 32, 3143-3149.	2.8	27
137	Jet Engine Coatings for Resisting Volcanic Ash Damage. Advanced Materials, 2011, 23, 2419-2424.	11.1	198
138	Jet Engine Coatings: Jet Engine Coatings for Resisting Volcanic Ash Damage (Adv. Mater. 21/2011). Advanced Materials, 2011, 23, 2388-2388.	11.1	5
139	Mitigation of damage from molten fly ash to air-plasma-sprayed thermal barrier coatings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7214-7221.	2.6	105
140	Effect of MoSi ₂ content on the lubricated sliding-wear resistance of Zr-MoSi ₂ composites. Journal of the European Ceramic Society, 2011, 31, 877-882.	2.8	24
141	High quality, transferrable graphene grown on single crystal Cu(111) thin films on basal-plane sapphire. Applied Physics Letters, 2011, 98, .	1.5	113
142	Comprehensive control of optical polarization anisotropy in semiconducting nanowires. Applied Physics Letters, 2011, 99, .	1.5	11
143	Chronic Fine Particulate Matter Exposure Induces Systemic Vascular Dysfunction via NADPH Oxidase and TLR4 Pathways. Circulation Research, 2011, 108, 716-726.	2.0	275
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