

Stephen J Pennycook

List of Publications by Year in descending order

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815
papers

57,150
citations

616

124
h-index

2033

205
g-index

873
all docs

873
docs citations

873
times ranked

44936
citing authors

#	ARTICLE	IF	CITATIONS
1	An oxygen reduction electrocatalyst based on carbon nanotube-graphene complexes. <i>Nature Nanotechnology</i> , 2012, 7, 394-400.	31.5	1,533
2	Nanoscale nickel oxide/nickel heterostructures for active hydrogen evolution electrocatalysis. <i>Nature Communications</i> , 2014, 5, 4695.	12.8	1,413
3	Atom-by-atom structural and chemical analysis by annular dark-field electron microscopy. <i>Nature</i> , 2010, 464, 571-574.	27.8	1,138
4	High-resolution Z-contrast imaging of crystals. <i>Ultramicroscopy</i> , 1991, 37, 14-38.	1.9	836
5	Colossal Ionic Conductivity at Interfaces of Epitaxial $ZrO_2 \cdot Y_2O_3 / SrTiO_3$ Heterostructures. <i>Science</i> , 2008, 321, 676-680.	12.6	675
6	Dopamine as a Carbon Source: The Controlled Synthesis of Hollow Carbon Spheres and Yolk-Structured Carbon Nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6799-6802.	13.8	674
7	Chemically sensitive structure-imaging with a scanning transmission electron microscope. <i>Nature</i> , 1988, 336, 565-567.	27.8	638
8	Hollow Mo-doped CoP nanoarrays for efficient overall water splitting. <i>Nano Energy</i> , 2018, 48, 73-80.	16.0	608
9	High-resolution incoherent imaging of crystals. <i>Physical Review Letters</i> , 1990, 64, 938-941.	7.8	587
10	Monolayer $PtSe_2$, a New Semiconducting Transition-Metal-Dichalcogenide, Epitaxially Grown by Direct Selenization of Pt. <i>Nano Letters</i> , 2015, 15, 4013-4018.	9.1	560
11	High-entropy-stabilized chalcogenides with high thermoelectric performance. <i>Science</i> , 2021, 371, 830-834.	12.6	546
12	ZnO Nanoneedles Grown Vertically on Si Substrates by Non-Catalytic Vapor-Phase Epitaxy. <i>Advanced Materials</i> , 2002, 14, 1841-1843.	21.0	528
13	Defect Engineering of Oxygen-Deficient Manganese Oxide to Achieve High-Performing Aqueous Zinc Ion Battery. <i>Advanced Energy Materials</i> , 2019, 9, 1803815.	19.5	504
14	Z-contrast stem for materials science. <i>Ultramicroscopy</i> , 1989, 30, 58-69.	1.9	486
15	Atomic-resolution chemical analysis using a scanning transmission electron microscope. <i>Nature</i> , 1993, 366, 143-146.	27.8	483
16	Direct Sub-Angstrom Imaging of a Crystal Lattice. <i>Science</i> , 2004, 305, 1741-1741.	12.6	463
17	Band Gap Engineering and Layer-by-Layer Mapping of Selenium-Doped Molybdenum Disulfide. <i>Nano Letters</i> , 2014, 14, 442-449.	9.1	463
18	Irradiation-free, columnar defects comprised of self-assembled nanodots and nanorods resulting in strongly enhanced flux-pinning in $YBa_2Cu_3O_7$ films. <i>Superconductor Science and Technology</i> , 2005, 18, 1533-1538.	3.5	443

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19	Observation of a periodic array of flux-closure quadrants in strained ferroelectric PbTiO ₃ films. <i>Science</i> , 2015, 348, 547-551.	12.6	430
20	Incoherent imaging using dynamically scattered coherent electrons. <i>Ultramicroscopy</i> , 1999, 78, 111-124.	1.9	408
21	Hollow Co ₃ O ₄ Nanosphere Embedded in Carbon Arrays for Stable and Flexible Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , 2017, 29, 1704117.	21.0	407
22	High thermoelectric performance in low-cost SnS _{0.91} Se _{0.09} crystals. <i>Science</i> , 2019, 365, 1418-1424.	12.6	395
23	The structural origin of enhanced piezoelectric performance and stability in lead free ceramics. <i>Energy and Environmental Science</i> , 2017, 10, 528-537.	30.8	386
24	Single Co Atoms Anchored in Porous N-Doped Carbon for Efficient Zinc-Air Battery Cathodes. <i>ACS Catalysis</i> , 2018, 8, 8961-8969.	11.2	364
25	Quantum Confinement Observed in ZnO/ZnMgO Nanorod Heterostructures. <i>Advanced Materials</i> , 2003, 15, 526-529.	21.0	344
26	Time-resolved imaging of gas phase nanoparticle synthesis by laser ablation. <i>Applied Physics Letters</i> , 1998, 72, 2987-2989.	3.3	318
27	Giant Piezoelectricity and High Curie Temperature in Nanostructured Alkali Niobate Lead-Free Piezoceramics through Phase Coexistence. <i>Journal of the American Chemical Society</i> , 2016, 138, 15459-15464.	13.7	310
28	Suppression of Octahedral Tilts and Associated Changes in Electronic Properties at Epitaxial Oxide Heterostructure Interfaces. <i>Physical Review Letters</i> , 2010, 105, 087204.	7.8	308
29	Ultrathin Two-Dimensional Membranes Assembled by Ionic Covalent Organic Nanosheets with Reduced Apertures for Gas Separation. <i>Journal of the American Chemical Society</i> , 2020, 142, 4472-4480.	13.7	304
30	Spectroscopic Imaging of Single Atoms Within a Bulk Solid. <i>Physical Review Letters</i> , 2004, 92, 095502.	7.8	299
31	Ultrahigh Performance in Lead-Free Piezoceramics Utilizing a Relaxor Slush Polar State with Multiphase Coexistence. <i>Journal of the American Chemical Society</i> , 2019, 141, 13987-13994.	13.7	296
32	Direct Imaging of the Atomic Configuration of Ultradispersed Catalysts. <i>Science</i> , 1996, 274, 413-415.	12.6	291
33	Observation of rare-earth segregation in silicon nitride ceramics at subnanometre dimensions. <i>Nature</i> , 2004, 428, 730-733.	27.8	289
34	Copper Single Atoms Anchored in Porous Nitrogen-Doped Carbon as Efficient pH-Universal Catalysts for the Nitrogen Reduction Reaction. <i>ACS Catalysis</i> , 2019, 9, 10166-10173.	11.2	284
35	Enhanced tunnelling electroresistance effect due to a ferroelectrically induced phase transition at a magnetic complex oxide interface. <i>Nature Materials</i> , 2013, 12, 397-402.	27.5	283
36	Probing oxygen vacancy concentration and homogeneity in solid-oxide fuel-cell cathode materials on the subunit-cell level. <i>Nature Materials</i> , 2012, 11, 888-894.	27.5	282

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37	Reversible Intercalation of Charged Iodine Chains into Carbon Nanotube Ropes. <i>Physical Review Letters</i> , 1998, 80, 5560-5563.	7.8	278
38	Atomic-resolution imaging of oxidation states in manganites. <i>Physical Review B</i> , 2009, 79, .	3.2	274
39	Cactus-Like NiCoP/NiCoOH 3D Architecture with Tunable Composition for High-Performance Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1800036.	14.9	274
40	Sulfur-doped cobalt phosphide nanotube arrays for highly stable hybrid supercapacitor. <i>Nano Energy</i> , 2017, 39, 162-171.	16.0	273
41	Long-range ferromagnetic ordering in manganese-doped two-dimensional dichalcogenides. <i>Physical Review B</i> , 2013, 88, .	3.2	271
42	p-type doping of MoS ₂ thin films using Nb. <i>Applied Physics Letters</i> , 2014, 104, 092104.	3.3	268
43	Detection of Single Atoms and Buried Defects in Three Dimensions by Aberration-Corrected Electron Microscope with 0.5-Å... Information Limit. <i>Microscopy and Microanalysis</i> , 2008, 14, 469-477.	0.4	266
44	Catalytically active single-atom niobium in graphitic layers. <i>Nature Communications</i> , 2013, 4, 1924.	12.8	261
45	Grain-Boundary-Enhanced Carrier Collection in CdTe Solar Cells. <i>Physical Review Letters</i> , 2014, 112, 156103.	7.8	258
46	Direct imaging of surface cusp evolution during strained-layer epitaxy and implications for strain relaxation. <i>Physical Review Letters</i> , 1993, 71, 1744-1747.	7.8	253
47	Chemically Exfoliated VSe ₂ Monolayers with Room-Temperature Ferromagnetism. <i>Advanced Materials</i> , 2019, 31, e1903779.	21.0	251
48	ZnO Nanosheets Abundant in Oxygen Vacancies Derived from Metal-Organic Frameworks for ppb-Level Gas Sensing. <i>Advanced Materials</i> , 2019, 31, e1807161.	21.0	251
49	Metal-organic framework derived hollow CoS ₂ nanotube arrays: an efficient bifunctional electrocatalyst for overall water splitting. <i>Nanoscale Horizons</i> , 2017, 2, 342-348.	8.0	247
50	Decorating Co/CoN _x nanoparticles in nitrogen-doped carbon nanoarrays for flexible and rechargeable zinc-air batteries. <i>Energy Storage Materials</i> , 2019, 16, 243-250.	18.0	244
51	Atomically-thin Bi ₂ MoO ₆ nanosheets with vacancy pairs for improved photocatalytic CO ₂ reduction. <i>Nano Energy</i> , 2019, 61, 54-59.	16.0	243
52	Remarkable Roles of Cu To Synergistically Optimize Phonon and Carrier Transport in n-Type PbTe-Cu ₂ Te. <i>Journal of the American Chemical Society</i> , 2017, 139, 18732-18738.	13.7	230
53	Flexible metallic nanowires with self-adaptive contacts to semiconducting transition-metal dichalcogenide monolayers. <i>Nature Nanotechnology</i> , 2014, 9, 436-442.	31.5	228
54	Atomic Arrangement of Iodine Atoms inside Single-Walled Carbon Nanotubes. <i>Physical Review Letters</i> , 2000, 84, 4621-4624.	7.8	224

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55	Direct Determination of the Chemical Bonding of Individual Impurities in Graphene. <i>Physical Review Letters</i> , 2012, 109, 206803.	7.8	222
56	On the origin of the high coarsening resistance of Ti plates in Al-Cu-Mg-Ag Alloys. <i>Acta Materialia</i> , 2001, 49, 2827-2841.	7.9	221
57	Structural origin of reduced critical currents at $\text{YBa}_2\text{Cu}_3\text{O}_7$ grain boundaries. <i>Nature</i> , 1991, 351, 47-49.	27.8	216
58	Depth sectioning with the aberration-corrected scanning transmission electron microscope. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3044-3048.	7.1	216
59	Interface control of bulk ferroelectric polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9710-9715.	7.1	212
60	Control of Octahedral Tilts and Magnetic Properties of Perovskite Oxide Heterostructures by Substrate Symmetry. <i>Physical Review Letters</i> , 2010, 105, 227203.	7.8	211
61	Epitaxial Growth of Centimeter-Scale Single-Crystal MoS_2 Monolayer on $\text{Au}(111)$. <i>ACS Nano</i> , 2020, 14, 5036-5045.	14.6	211
62	Structural Basis for Near Unity Quantum Yield Core/Shell Nanostructures. <i>Nano Letters</i> , 2006, 6, 1496-1501.	9.1	210
63	Atomically Dispersed Cobalt Trifunctional Electrocatalysts with Tailored Coordination Environment for Flexible Rechargeable Zn-Air Battery and Self-Driven Water Splitting. <i>Advanced Energy Materials</i> , 2020, 10, 2002896.	19.5	210
64	Three-dimensional imaging of individual hafnium atoms inside a semiconductor device. <i>Applied Physics Letters</i> , 2005, 87, 034104.	3.3	206
65	Synthesis, surface studies, composition and structural characterization of CdSe, core/shell and biologically active nanocrystals. <i>Surface Science Reports</i> , 2007, 62, 111-157.	7.2	205
66	Phase Diagram and Superconducting Dome of Infinite-Layer $\text{Nd}_{1-x}\text{Ce}_x\text{Bi}_2$ Thin Film. <i>Physical Review Letters</i> , 2020, 125, 147003.	7.8	204
67	$(\text{Ni},\text{Co})\text{Se}_2/\text{NiCo-LDH}$ Core/Shell Structural Electrode with the Cactus-Like $(\text{Ni},\text{Co})\text{Se}_2$ Core for Asymmetric Supercapacitors. <i>Small</i> , 2019, 15, e1803895.	10.0	203
68	Realizing high performance n-type PbTe by synergistically optimizing effective mass and carrier mobility and suppressing bipolar thermal conductivity. <i>Energy and Environmental Science</i> , 2018, 11, 2486-2495.	30.8	200
69	Dopants adsorbed as single atoms prevent degradation of catalysts. <i>Nature Materials</i> , 2004, 3, 143-146.	27.5	199
70	Efficient Hydrogen Evolution of Oxidized Ni_3N Defective Sites for Alkaline Freshwater and Seawater Electrolysis. <i>Advanced Materials</i> , 2021, 33, e2003846.	21.0	198
71	Atomically localized plasmon enhancement in monolayer graphene. <i>Nature Nanotechnology</i> , 2012, 7, 161-165.	31.5	196
72	Hierarchically Imprinted Sorbents for the Separation of Metal Ions. <i>Journal of the American Chemical Society</i> , 2000, 122, 992-993.	13.7	195

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73	Integrated Hierarchical Carbon Flake Arrays with Hollow P-doped CoSe ₂ Nanoclusters as an Advanced Bifunctional Catalyst for Zn-air Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1804846.	14.9	192
74	Direct Determination of Grain Boundary Atomic Structure in SrTiO ₃ . <i>Science</i> , 1994, 266, 102-104.	12.6	191
75	Synergizing Mo Single Atoms and Mo ₂ C Nanoparticles on CNTs Synchronizes Selectivity and Activity of Electrocatalytic N ₂ Reduction to Ammonia. <i>Advanced Materials</i> , 2020, 32, e2002177.	21.0	190
76	Extraordinary thermoelectric performance in n-type manganese doped Mg ₃ Sb ₂ Zintl: High band degeneracy, tuned carrier scattering mechanism and hierarchical microstructure. <i>Nano Energy</i> , 2018, 52, 246-255.	16.0	188
77	Practical High Piezoelectricity in Barium Titanate Ceramics Utilizing Multiphase Convergence with Broad Structural Flexibility. <i>Journal of the American Chemical Society</i> , 2018, 140, 15252-15260.	13.7	187
78	Bonding Arrangements at the Si ⁺ /SiO ₂ and Si ⁺ /SiO ₂ Interfaces and a Possible Origin of their Contrasting Properties. <i>Physical Review Letters</i> , 2000, 84, 943-946.	7.8	186
79	Nano Ferroelectric for High Efficiency Overall Water Splitting under Ultrasonic Vibration. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15076-15081.	13.8	185
80	Engineering covalently bonded 2D layered materials by self-intercalation. <i>Nature</i> , 2020, 581, 171-177.	27.8	185
81	Ultrasensitive 2D Bi ₂ O ₂ Se Phototransistors on Silicon Substrates. <i>Advanced Materials</i> , 2019, 31, e1804945.	21.0	183
82	Ni-Doped Cobalt Cobalt Nitride Heterostructure Arrays for High-Power Supercapacitors. <i>ACS Energy Letters</i> , 2018, 3, 2462-2469.	17.4	182
83	Hydrogen and the Structure of the Transition Aluminas. <i>Journal of the American Chemical Society</i> , 1999, 121, 7493-7499.	13.7	179
84	Enhanced current transport at grain boundaries in high-T _c superconductors. <i>Nature</i> , 2005, 435, 475-478.	27.8	177
85	Growth and relaxation mechanisms of YBa ₂ Cu ₃ O _{7-x} films. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 202, 1-11.	1.2	176
86	Nonstoichiometry and the Electrical Activity of Grain Boundaries in SrTiO ₃ . <i>Physical Review Letters</i> , 2001, 86, 4056-4059.	7.8	176
87	Potential-Dependent Phase Transition and Mo-Enriched Surface Reconstruction of ¹³⁷ CoOOH in a Heterostructured Co-Mo ₂ C Precatalyst Enable Water Oxidation. <i>ACS Catalysis</i> , 2020, 10, 4411-4419.	11.2	174
88	Thermal stability and catalytic activity of gold nanoparticles supported on silica. <i>Journal of Catalysis</i> , 2009, 262, 92-101.	6.2	170
89	Direct observation of the core structures of threading dislocations in GaN. <i>Applied Physics Letters</i> , 1998, 72, 2680-2682.	3.3	169
90	Interactions of Hydrogen with CeO ₂ . <i>Journal of the American Chemical Society</i> , 2001, 123, 6609-6611.	13.7	167

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91	Direct imaging of interfacial ordering in ultrathin (Si/Ge) ₂ /Si superlattices. Physical Review Letters, 1991, 66, 750-753.	7.8	164
92	Molecular-Beam Epitaxy of Two-Dimensional In ₂ Se ₃ and Its Giant Electroresistance Switching in Ferroresistive Memory Junction. Nano Letters, 2018, 18, 6340-6346.	9.1	163
93	Self-Limiting Growth of Strained Faceted Islands. Physical Review Letters, 1998, 80, 5156-5159.	7.8	162
94	Reversible, Nanometer-Scale Conductance Transitions in an Organic Complex. Physical Review Letters, 2000, 84, 1780-1783.	7.8	162
95	Heterojunction engineering of MoSe ₂ /MoS ₂ with electronic modulation towards synergetic hydrogen evolution reaction and supercapacitance performance. Chemical Engineering Journal, 2019, 359, 1419-1426.	12.7	160
96	Subangstrom Resolution by Underfocused Incoherent Transmission Electron Microscopy. Physical Review Letters, 1998, 81, 4156-4159.	7.8	157
97	Entropy Engineering of SnTe: Multi-Principal Element Alloying Leading to Ultralow Lattice Thermal Conductivity and State-of-the-Art Thermoelectric Performance. Advanced Energy Materials, 2018, 8, 1802116.	19.5	157
98	Coupling of superconductors through a half-metallic ferromagnet: Evidence for a long-range proximity effect. Physical Review B, 2004, 69, .	3.2	152
99	Single-Atom Coated Separator for Robust Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 25147-25154.	8.0	152
100	Insulating Ferromagnetic LaCoO_3 A Phase Induced by Ordering of Oxygen Vacancies. Physical Review Letters, 2014, 112, .	7.8	151
101	The atomic origins of reduced critical currents at [001] tilt grain boundaries in YBa ₂ Cu ₃ O _{7-δ} thin films. Physica C: Superconductivity and Its Applications, 1998, 294, 183-193.	1.2	150
102	Mapping Octahedral Tilts and Polarization Across a Domain Wall in BiFeO ₃ from Z-Contrast Scanning Transmission Electron Microscopy Image Atomic Column Shape Analysis. ACS Nano, 2010, 4, 6071-6079.	14.6	150
103	Dynamics of single-wall carbon nanotube synthesis by laser vaporization. Applied Physics A: Materials Science and Processing, 2000, 70, 153-160.	2.3	148
104	Preparation and Comparison of Supported Gold Nanocatalysts on Anatase, Brookite, Rutile, and P25 Polymorphs of TiO ₂ for Catalytic Oxidation of CO. Journal of Physical Chemistry B, 2005, 109, 10676-10685.	2.6	146
105	Atomic engineering of high-density isolated Co atoms on graphene with proximal-atom controlled reaction selectivity. Nature Communications, 2018, 9, 3197.	12.8	146
106	Morphological Evolution of Strained Films by Cooperative Nucleation. Physical Review Letters, 1996, 77, 1330-1333.	7.8	145
107	Symmetry-dependent field-free switching of perpendicular magnetization. Nature Nanotechnology, 2021, 16, 277-282.	31.5	145
108	Crown ethers in graphene. Nature Communications, 2014, 5, 5389.	12.8	142

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109	Topological Defects: Origin of Nanopores and Enhanced Adsorption Performance in Nanoporous Carbon. <i>Small</i> , 2012, 8, 3283-3288.	10.0	139
110	Current-induced magnetization switching in all-oxide heterostructures. <i>Nature Nanotechnology</i> , 2019, 14, 939-944.	31.5	139
111	Epitaxial Ferroelectric Hf _{0.5} Zr _{0.5} O ₂ Thin Films and Their Implementations in Memristors for Brain-Inspired Computing. <i>Advanced Functional Materials</i> , 2018, 28, 1806037.	14.9	138
112	AC/AB Stacking Boundaries in Bilayer Graphene. <i>Nano Letters</i> , 2013, 13, 3262-3268.	9.1	137
113	Realizing High Thermoelectric Performance in p-Type SnSe through Crystal Structure Modification. <i>Journal of the American Chemical Society</i> , 2019, 141, 1141-1149.	13.7	137
114	The effect of interfacial layer properties on the performance of Hf-based gate stack devices. <i>Journal of Applied Physics</i> , 2006, 100, 094108.	2.5	135
115	Direct observation of a local thermal vibration anomaly in a quasicrystal. <i>Nature</i> , 2003, 421, 347-350.	27.8	134
116	Conducting interfaces between band insulating oxides: The LaGaO ₃ /SrTiO ₃ heterostructure. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	133
117	Visible and Near-Infrared Photothermal Catalyzed Hydrogenation of Gaseous CO ₂ over Nanostructured Pd@Nb ₂ O ₅ . <i>Advanced Science</i> , 2016, 3, 1600189.	11.2	133
118	Metal-organic framework-derived hierarchical MoS ₂ /CoS ₂ nanotube arrays as pH-universal electrocatalysts for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13339-13346.	10.3	133
119	Surfactant Organic Molecules Restore Magnetism in Metal-Oxide Nanoparticle Surfaces. <i>Nano Letters</i> , 2012, 12, 2499-2503.	9.1	132
120	Electron Transfer and Ionic Displacements at the Origin of the 2D Electron Gas at the LAO/STO Interface: Direct Measurements with Atomic-Column Spatial Resolution. <i>Advanced Materials</i> , 2012, 24, 3952-3957.	21.0	132
121	Thermoelectric SnTe with Band Convergence, Dense Dislocations, and Interstitials through Sn Self-Compensation and Mn Alloying. <i>Small</i> , 2018, 14, e1802615.	10.0	132
122	Kinetic Pathways to Strain Relaxation in the Si-Ge System. <i>MRS Bulletin</i> , 1996, 21, 31-37.	3.5	131
123	Quasicrystals as cluster aggregates. <i>Nature Materials</i> , 2004, 3, 759-767.	27.5	131
124	Band Sharpening and Band Alignment Enable High Quality Factor to Enhance Thermoelectric Performance in n-Type PbS. <i>Journal of the American Chemical Society</i> , 2020, 142, 4051-4060.	13.7	130
125	Nucleation of Single-Walled Carbon Nanotubes. <i>Physical Review Letters</i> , 2003, 90, 145501.	7.8	127
126	Point Defects and Localized Excitons in 2D WSe ₂ . <i>ACS Nano</i> , 2019, 13, 6050-6059.	14.6	127

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127	Direct observation of dislocation dissociation and Suzuki segregation in a Mg _{0.9} Zn _{0.1} Y alloy by aberration-corrected scanning transmission electron microscopy. <i>Acta Materialia</i> , 2013, 61, 350-359.	7.9	126
128	Engineering Local and Global Structures of Single Co Atoms for a Superior Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2020, 10, 5862-5870.	11.2	126
129	Controlled Synthesis of CdS Nanoparticles inside Ordered Mesoporous Silica Using Ion-Exchange Reaction. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6755-6758.	2.6	125
130	Correlated Optical Measurements and Plasmon Mapping of Silver Nanorods. <i>Nano Letters</i> , 2011, 11, 3482-3488.	9.1	125
131	Origin of Colossal Ionic Conductivity in Oxide Multilayers: Interface Induced Sublattice Disorder. <i>Physical Review Letters</i> , 2010, 104, 115901.	7.8	124
132	Lattice mismatch accommodation via oxygen vacancy ordering in epitaxial La _{0.5} Sr _{0.5} CoO _{3-δ} thin films. <i>APL Materials</i> , 2013, 1, .	5.1	124
133	Three-dimensional ADF imaging of individual atoms by through-focal series scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2006, 106, 1062-1068.	1.9	122
134	Role of the nanoscale in catalytic CO oxidation by supported Au and Pt nanostructures. <i>Physical Review B</i> , 2007, 76, .	3.2	122
135	Strain-Driven Oxygen Deficiency in Self-Assembled, Nanostructured, Composite Oxide Films. <i>ACS Nano</i> , 2011, 5, 4783-4789.	14.6	122
136	Conformal dispersed cobalt nanoparticles in hollow carbon nanotube arrays for flexible Zn-air and Al-air batteries. <i>Chemical Engineering Journal</i> , 2019, 369, 988-995.	12.7	121
137	Atomically Dispersed Indium Sites for Selective CO ₂ Electroreduction to Formic Acid. <i>ACS Nano</i> , 2021, 15, 5671-5678.	14.6	121
138	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. <i>Nature Communications</i> , 2020, 11, 3729.	12.8	120
139	Determination of the ordered structures of Pb(Mg _{1/3} Nb _{2/3})O ₃ and Ba(Mg _{1/3} Nb _{2/3})O ₃ by atomic-resolution Z-contrast imaging. <i>Applied Physics Letters</i> , 1998, 72, 3145-3147.	3.3	119
140	Nonstoichiometric Dislocation Cores in α -Alumina. <i>Science</i> , 2007, 316, 82-85.	12.6	119
141	Point Defect Configurations of Supersaturated Au Atoms Inside Si Nanowires. <i>Nano Letters</i> , 2008, 8, 1016-1019.	9.1	119
142	Direct Imaging of Nanoscale Phase Separation in $\text{La}_{0.55}\text{Ca}_{0.45}\text{MnO}_3$ Relationship to Colossal Magnetoresistance. <i>Physical Review Letters</i> , 2009, 103, 097202.	7.8	118
143	Materializing efficient methanol oxidation via electron delocalization in nickel hydroxide nanoribbon. <i>Nature Communications</i> , 2020, 11, 4647.	12.8	117
144	Platinum-Modulated Cobalt Nanocatalysts for Low-Temperature Aqueous-Phase Fischer-Tropsch Synthesis. <i>Journal of the American Chemical Society</i> , 2013, 135, 4149-4158.	13.7	116

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145	Simultaneously enhancing the power factor and reducing the thermal conductivity of SnTe via introducing its analogues. <i>Energy and Environmental Science</i> , 2017, 10, 2420-2431.	30.8	116
146	In situ imaging and spectroscopy of single-wall carbon nanotube synthesis by laser vaporization. <i>Applied Physics Letters</i> , 2000, 76, 182-184.	3.3	115
147	Controlled Growth and Thickness-Dependent Conduction-Type Transition of 2D Ferrimagnetic Cr ₂ S ₃ Semiconductors. <i>Advanced Materials</i> , 2020, 32, e1905896.	21.0	114
148	Charge Leakage at LaMnO ₃ /SrTiO ₃ Interfaces. <i>Advanced Materials</i> , 2010, 22, 627-632.	21.0	113
149	Heterogeneous Single Atom Electrocatalysis, Where Singles Are Married. <i>Advanced Energy Materials</i> , 2020, 10, 1903181.	19.5	113
150	Z-Contrast Transmission Electron Microscopy: Direct Atomic Imaging of Materials. <i>Annual Review of Materials Research</i> , 1992, 22, 171-195.	5.5	111
151	Atomically-precise dopant-controlled single cluster catalysis for electrochemical nitrogen reduction. <i>Nature Communications</i> , 2020, 11, 4389.	12.8	110
152	Photoluminescence from gas-suspended SiO _x nanoparticles synthesized by laser ablation. <i>Applied Physics Letters</i> , 1998, 73, 438-440.	3.3	108
153	Impurity-Induced Structural Transformation of a MgO Grain Boundary. <i>Physical Review Letters</i> , 1998, 81, 3675-3678.	7.8	108
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