Peter A Van Aken

List of Publications by Year
in descending order

400 papers	19,243 citations	11639 70 h-index	13758 129 g-index
424 all docs	424 docs citations	424 times ranked	21142 citing authors

#	Article	IF	Citations
1	Singleâ€Layered Ultrasmall Nanoplates of MoS₂ Embedded in Carbon Nanofibers with Excellent Electrochemical Performance for Lithium and Sodium Storage. Angewandte Chemie - International Edition, 2014, 53, 2152-2156.	7.2	826
2	Reversible Storage of Lithium in Silverâ€Coated Threeâ€Dimensional Macroporous Silicon. Advanced Materials, 2010, 22, 2247-2250.	11.1	558
3	Encapsulation of Sn@carbon Nanoparticles in Bambooâ€like Hollow Carbon Nanofibers as an Anode Material in Lithiumâ€Based Batteries. Angewandte Chemie - International Edition, 2009, 48, 6485-6489.	7.2	551
4	Nitrogen doped porous carbon fibres as anode materials for sodium ion batteries with excellent rate performance. Nanoscale, 2014, 6, 1384-1389.	2.8	542
5	Carbon-Coated Na₃V₂(PO₄)₃ Embedded in Porous Carbon Matrix: An Ultrafast Na-Storage Cathode with the Potential of Outperforming Li Cathodes. Nano Letters, 2014, 14, 2175-2180.	4.5	446
6	Tin Nanoparticles Encapsulated in Porous Multichannel Carbon Microtubes: Preparation by Single-Nozzle Electrospinning and Application as Anode Material for High-Performance Li-Based Batteries. Journal of the American Chemical Society, 2009, 131, 15984-15985.	6.6	404
7	Uniform yolkâ€“shell Sn₄P₃@C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. Energy and Environmental Science, 2015, 8, 3531-3538.	15.6	401
8	Self-Supported Li₄Ti₅O₁₂â€“C Nanotube Arrays as High-Rate and Long-Life Anode Materials for Flexible Li-Ion Batteries. Nano Letters, 2014, 14, 2597-2603.	4.5	397
9	Magnetization study of nanograined pure and Mn-doped ZnO films: Formation of a ferromagnetic grain-boundary foam. Physical Review B, 2009, 79, .	1.1	343
10	Dualâ€Functionalized Double Carbon Shells Coated Silicon Nanoparticles for High Performance Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1605650.	11.1	325
11	MOFâ€Derived Hollow Co₉S₈ Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Liâ€Ion Storage. Small, 2016, 12, 2354-2364.	5.2	306
12	Quantification of ferrous/ferric ratios in minerals: new evaluation schemes of Fe L 23 electron energy-loss near-edge spectra. Physics and Chemistry of Minerals, 2002, 29, 188-200.	0.3	303
13	Peapodâ€like Li₃VO₄/Nâ€Doped Carbon Nanowires with Pseudocapacitive Properties as Advanced Materials for Highâ€Energy Lithiumâ€Ion Capacitors. Advanced Materials, 2017, 29, 1700142.	11.1	298
14	Exfoliation of a non-van der Waals material from iron ore hematite. Nature Nanotechnology, 2018, 13, 602-609.	15.6	295
15	Facile Solidâ€State Growth of 3D Wellâ€Interconnected Nitrogenâ€Rich Carbon Nanotubeâ€“Graphene Hybrid Architectures for Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2016, 26, 1112-1119.	7.8	281
16	Quantitative determination of iron oxidation states in minerals using Fe L 2,3 -edge electron energy-loss near-edge structure spectroscopy. Physics and Chemistry of Minerals, 1998, 25, 323-327.	0.3	279
17	A Germaniumâ€“Carbon Nanocomposite Material for Lithium Batteries. Advanced Materials, 2008, 20, 3079-3083.	11.1	271
18	Electrospun Na3V2(PO4)3/C nanofibers as stable cathode materials for sodium-ion batteries. Nanoscale, 2014, 6, 5081.	2.8	266

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19	Synthesizing Porous NaTi₂(PO₄)₃ Nanoparticles Embedded in 3D Graphene Networks for High-Rate and Long Cycle-Life Sodium Electrodes. ACS Nano, 2015, 9, 6610-6618.	7.3	260
20	Facile Synthesis of Highly Porous Niâ€“Sn Intermetallic Microcages with Excellent Electrochemical Performance for Lithium and Sodium Storage. Nano Letters, 2014, 14, 6387-6392.	4.5	257
21	Energy Storage Materials from Nature through Nanotechnology: A Sustainable Route from Reed Plants to a Silicon Anode for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2015, 54, 9632-9636.	7.2	245
22	Peapodâ€Like Carbonâ€Encapsulated Cobalt Chalcogenide Nanowires as Cycleâ€Stable and Highâ€Rate Materials for Sodiumâ€Ion Anodes. Advanced Materials, 2016, 28, 7276-7283.	11.1	237
23	Oxygen-evolving catalytic atoms on metal carbides. Nature Materials, 2021, 20, 1240-1247.	13.3	235
24	An interface clusters mixture model for the structure of amorphous silicon monoxide (SiO). Journal of Non-Crystalline Solids, 2003, 320, 255-280.	1.5	231
25	â€œNanoâ€Pearlâ€Stringâ€•TiNb₂O₇ as Anodes for Rechargeable Lithium Batteries. Advanced Energy Materials, 2013, 3, 49-53.	10.2	220
26	High Performance Graphene/Ni₂P Hybrid Anodes for Lithium and Sodium Storage through 3D Yolkâ€“Shellâ€Like Nanostructural Design. Advanced Materials, 2017, 29, 1604015.	11.1	220
27	Hollow Carbon Nanospheres with a High Rate Capability for Lithiumâ€Based Batteries. ChemSusChem, 2012, 5, 400-403.	3.6	215
28	Lowâ€Temperature Ionicâ€Liquidâ€Based Synthesis of Nanostructured Ironâ€Based Fluoride Cathodes for Lithium Batteries. Advanced Materials, 2010, 22, 3650-3654.	11.1	209
29	High Powerâ€“High Energy Sodium Battery Based on Threefold Interpenetrating Network. Advanced Materials, 2016, 28, 2409-2416.	11.1	205
30	Carbonâ€Encapsulated Pyrite as Stable and Earthâ€Abundant High Energy Cathode Material for Rechargeable Lithium Batteries. Advanced Materials, 2014, 26, 6025-6030.	11.1	201
31	Ge/C Nanowires as High-Capacity and Long-Life Anode Materials for Li-Ion Batteries. ACS Nano, 2014, 8, 7051-7059.	7.3	198
32	3D V₆O₁₃ Nanotextiles Assembled from Interconnected Nanogrooves as Cathode Materials for High-Energy Lithium Ion Batteries. Nano Letters, 2015, 15, 1388-1394.	4.5	194
33	A General Strategy to Fabricate Carbonâ€Coated 3D Porous Interconnected Metal Sulfides: Case Study of SnS/C Nanocomposite for Highâ€Performance Lithium and Sodium Ion Batteries. Advanced Science, 2015, 2, 1500200.	5.6	193
34	An FeF₃Â·0.5H₂O Polytype: A Microporous Framework Compound with Intersecting Tunnels for Li and Na Batteries. Journal of the American Chemical Society, 2013, 135, 11425-11428.	6.6	177
35	A high-performance self-powered broadband photodetector based on a CH₃NH₃PbI₃ perovskite/ZnO nanorod array heterostructure. Journal of Materials Chemistry C, 2016, 4, 7302-7308.	2.7	159
36	Fast Li Storage in MoS₂â€Grapheneâ€Carbon Nanotube Nanocomposites: Advantageous Functional Integration of 0D, 1D, and 2D Nanostructures. Advanced Energy Materials, 2015, 5, 1401170.	10.2	155

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37	High Lithium Storage Performance of FeS Nanodots in Porous Graphitic Carbon Nanowires. Advanced Functional Materials, 2015, 25, 2335-2342.	7.8	148
38	MÃ¶ssbauer and ELNES spectroscopy of (Mg,Fe)(Si,Al)O3 perovskite: a highly oxidised component of the lower mantle. Contributions To Mineralogy and Petrology, 2000, 138, 17-26.	1.2	143
39	A Lamellar Hybrid Assembled from Metal Disulfide Nanowall Arrays Anchored on a Carbon Layer: In Situ Hybridization and Improved Sodium Storage. Advanced Materials, 2016, 28, 7774-7782.	11.1	142
40	Toroidal Plasmonic Eigenmodes in Oligomer Nanocavities for the Visible. Nano Letters, 2012, 12, 5239-5244.	4.5	141
41	A High Powerâ€“High Energy Na₃V₂(PO₄)₂F₃ Sodium Cathode: Investigation of Transport Parameters, Rational Design and Realization. Chemistry of Materials, 2017, 29, 5207-5215.	3.2	141
42	Surface plasmon modes of a single silver nanorod: an electron energy loss study. Optics Express, 2011, 19, 15371.	1.7	126
43	Ultrathin Ti₂Nb₂O₉ Nanosheets with Pseudocapacitive Properties as Superior Anode for Sodiumâ€Ion Batteries. Advanced Materials, 2018, 30, e1804378.	11.1	117
44	Charge separation and transport in La 0.6 Sr 0.4 Co 0.2 Fe 0.8 O 3-Î´ and ion-doping ceria heterostructure material for new generation fuel cell. Nano Energy, 2017, 37, 195-202.	8.2	115
45	A Sulfurâ€“Limoneneâ€Based Electrode for Lithiumâ€“Sulfur Batteries: Highâ€Performance by Selfâ€Protection. Advanced Materials, 2018, 30, e1706643.	11.1	114
46	A Highâ€Capacity Cathode for Lithium Batteries Consisting of Porous Microspheres of Highly Amorphized Iron Fluoride Densified from Its Open Parent Phase. Advanced Energy Materials, 2013, 3, 113-119.	10.2	111
47	1s2p Resonant Inelastic X-ray Scattering of Iron Oxides. Journal of Physical Chemistry B, 2005, 109, 20751-20762.	1.2	108
48	Dopant Segregation and Space Charge Effects in Proton-Conducting BaZrO₃ Perovskites. Journal of Physical Chemistry C, 2012, 116, 2453-2461.	1.5	106
49	Band-gap measurements of direct and indirect semiconductors using monochromated electrons. Physical Review B, 2007, 75, .	1.1	103
50	Cross-Linking Hollow Carbon Sheet Encapsulated CuP₂ Nanocomposites for High Energy Density Sodium-Ion Batteries. ACS Nano, 2018, 12, 7018-7027.	7.3	99
51	Preparation and characterization of Sm and Ca co-doped ceriaâ€“La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3â^Î´}semiconductorâ€“ionic composites for electrolyte-layer-free fuel cells. Journal of Materials Chemistry A, 2016, 4, 15426-15436.	10.7	97
52	Theory and applications of toroidal moments in electrodynamics: their emergence, characteristics, and technological relevance. Nanophotonics, 2018, 7, 93-110.	2.9	96
53	In situ reduction and coating of SnS₂ nanobelts for free-standing SnS@polypyrrole-nanobelt/carbon-nanotube paper electrodes with superior Li-ion storage. Journal of Materials Chemistry A, 2015, 3, 5259-5265.	5.2	92
54	Possibly Mixed Valency of Uranium inUNi5â^'xCux. Physical Review Letters, 1975, 34, 1457-1460.	2.9	91

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55	Grapheneâ€Protected 3D Sbâ€based Anodes Fabricated via Electrostatic Assembly and Confinement Replacement for Enhanced Lithium and Sodium Storage. Small, 2015, 11, 6026-6035.	5.2	87
56	Oxidation state of iron in hydrous mantle phases: implications for subduction and mantle oxygen fugacity. Physics of the Earth and Planetary Interiors, 2004, 143-144, 157-169.	0.7	85
57	3D Honeycomb Architecture Enables a Highâ€Rate and Longâ€Life Iron (III) Fluorideâ€“Lithium Battery. Advanced Materials, 2019, 31, e1905146.	11.1	84
58	High-Pressure Synthesis of Crystalline Carbon Nitride Imide, C2N2(NH). Angewandte Chemie - International Edition, 2007, 46, 1476-1480.	7.2	82
59	Resonant wedge-plasmon modes in single-crystalline gold nanoplatelets. Physical Review B, 2011, 83, .	1.1	81
60	Phase Boundary Propagation in Large LiFePO4 Single Crystals on Delithiation. Journal of the American Chemical Society, 2012, 134, 2988-2992.	6.6	81
61	Hierarchical Metal Sulfide/Carbon Spheres: A Generalized Synthesis and High Sodiumâ€Storage Performance. Angewandte Chemie - International Edition, 2019, 58, 7238-7243.	7.2	80
62	Tiny Li4Ti5O12 nanoparticles embedded in carbon nanofibers as high-capacity and long-life anode materials for both Li-ion and Na-ion batteries. Physical Chemistry Chemical Physics, 2013, 15, 20813.	1.3	78
63	Elucidating the Mechanism of an RbF Post Deposition Treatment in CIGS Thin Film Solar Cells. Solar Rrl, 2018, 2, 1800156.	3.1	78
64	Direct imaging of surface plasmon resonances on single triangular silver nanoprisms at optical wavelength using low-loss EFTEM imaging. Optics Letters, 2009, 34, 1003.	1.7	77
65	A novel germanium/carbon nanotubes nanocomposite for lithium storage material. Electrochimica Acta, 2010, 55, 985-988.	2.6	77
66	Visualization of Multipolar Longitudinal and Transversal Surface Plasmon Modes in Nanowire Dimers. ACS Nano, 2011, 5, 9845-9853.	7.3	77
67	The seebeck coefficient of YbAl2 and YbAl3. Physics Letters, Section A: General, Atomic and Solid State Physics, 1974, 49, 246-248.	0.9	75
68	Experimental realization of graded L1-FePt/Fe composite media with perpendicular magnetization. Journal of Applied Physics, 2008, 104, .	1.1	74
69	The effect of ozonation on the toxicity and biodegradability of 2,4-dichlorophenol-containing wastewater. Chemical Engineering Journal, 2015, 280, 728-736.	6.6	73
70	Engineering nanostructured electrode materials for high performance sodium ion batteries: a case study of a 3D porous interconnected WS₂/C nanocomposite. Journal of Materials Chemistry A, 2015, 3, 20487-20493.	5.2	71
71	An efficient, simple, and precise way to map strain with nanometer resolution in semiconductor devices. Applied Physics Letters, 2010, 96, .	1.5	69
72	Metalâ€“Organic Framework-Derived Nanoconfinements of CoF₂ and Mixed-Conducting Wiring for High-Performance Metal Fluoride-Lithium Battery. ACS Nano, 2021, 15, 1509-1518.	7.3	69

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73	Toughening through Nature-Adapted Nanoscale Design. Nano Letters, 2009, 9, 4103-4108.	4.5	66
74	Kondo Sidebands in CeAl3and Related Pseudobinary Compounds. Physical Review B, 1971, 3, 1662-1670.	1.1	64
75	Excitation of Mesoscopic Plasmonic Tapers by Relativistic Electrons: Phase Matching versus Eigenmode Resonances. ACS Nano, 2015, 9, 7641-7648.	7.3	61
76	Metalâ€“organic framework-derived high conductivity Fe3C with porous carbon on graphene as advanced anode materials for aqueous battery-supercapacitor hybrid devices. Journal of Power Sources, 2020, 448, 227403.	4.0	60
77	Fe-Mg partitioning between ringwoodite and magnesiowÃ¼stite and the effect of pressure, temperature and oxygen fugacity. Physics and Chemistry of Minerals, 2001, 28, 455-470.	0.3	59
78	Iron oxidation state in lower mantle mineral assemblages. Earth and Planetary Science Letters, 2004, 222, 435-449.	1.8	59
79	Core level electron energy-loss spectra of minerals: pre-edge fine structures at the oxygen K -edge. Physics and Chemistry of Minerals, 1998, 25, 494-498.	0.3	58
80	Oxygen octahedra picker: A software tool to extract quantitative information from STEM images. Ultramicroscopy, 2016, 168, 46-52.	0.8	55
81	Hybridized Metal Slit Eigenmodes as an Illustration of Babinetâ€™s Principle. ACS Nano, 2011, 5, 6701-6706.	7.3	54
82	Synthetic tourmaline (olenite) with excess boron replacing silicon in the tetrahedral site: I. Synthesis conditions, chemical and spectroscopic evidence. European Journal of Mineralogy, 2000, 12, 529-541.	0.4	53
83	High-temperature superconductivity in space-charge regions of lanthanum cuprate induced by two-dimensional doping. Nature Communications, 2015, 6, 8586.	5.8	53
84	Fuelâ€Free Nanocapâ€Like Motors Actuated Under Visible Light. Advanced Functional Materials, 2018, 28, 1705862.	7.8	52
85	Top-down synthesis of interconnected two-dimensional carbon/antimony hybrids as advanced anodes for sodium storage. Energy Storage Materials, 2018, 10, 122-129.	9.5	50
86	Natural Vermiculite Enables Highâ€Performance in Lithiumâ€“Sulfur Batteries via Electrical Double Layer Effects. Advanced Functional Materials, 2019, 29, 1902820.	7.8	50
87	Delithiation Study of LiFePO[sub 4] Crystals Using Electron Energy-Loss Spectroscopy. Electrochemical and Solid-State Letters, 2009, 12, A151.	2.2	49
88	Grain-boundary types in chalcopyrite-type thin films and their correlations with film texture and electrical properties. Thin Solid Films, 2009, 517, 2545-2549.	0.8	49
89	A Carbon/Titanium Vanadium Nitride Composite for Lithium Storage. ChemPhysChem, 2010, 11, 3219-3223.	1.0	49
90	Nano-crystallization in LaF3â€“Na2Oâ€“Al2O3â€“SiO2 glass. Journal of Crystal Growth, 2009, 311, 4350-4355.	0.7	48

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91	Rapid and Up-Scalable Fabrication of Free-Standing Metal Oxide Nanosheets for High-Performance Lithium Storage. Small, 2015, 11, 2011-2018.	5.2	48
92	The Importance of Grain Boundaries for the Time-Dependent Mobility Degradation in Organic Thin-Film Transistors. Chemistry of Materials, 2009, 21, 4949-4954.	3.2	47
93	Compositional and electrical properties of line and planar defects in Cu(In,Ga)Se₂ thin films for solar cells â€“ a review. Physica Status Solidi - Rapid Research Letters, 2016, 10, 363-375.	1.2	47
94	Sample tilt effects on atom column position determination in ABFâ€“STEM imaging. Ultramicroscopy, 2016, 160, 110-117.	0.8	47
95	Experimental investigation of smectite interaction with metal iron at 80 ÂC: Structural characterization of newly formed Fe-rich phyllosilicates. American Mineralogist, 2012, 97, 864-871.	0.9	46
96	Cerium reduction at the interface between ceria and yttria-stabilised zirconia and implications for interfacial oxygen non-stoichiometry. APL Materials, 2014, 2, .	2.2	46
97	Long-range charge-density-wave proximity effect at cuprate/manganate interfaces. Nature Materials, 2016, 15, 831-834.	13.3	46
98	Auâ€“Ag Hybrid Nanoparticle Patterns of Tunable Size and Density on Glass and Polymeric Supports. Langmuir, 2012, 28, 1562-1568.	1.6	45
99	Electron energy losses in Ag nanoholesâ€”from localized surface plasmon resonances to rings of fire. Optics Letters, 2009, 34, 2150.	1.7	44
100	Microanalysis of Fe 3+ ÎŁFe in oxide and silicate minerals by investigation of electron energy-loss near-edge structures (ELNES) at the Fe M 2,3 edge. Physics and Chemistry of Minerals, 1999, 26, 584-590.	0.3	43
101	Multichannel hollow TiO2 nanofibers fabricated by single-nozzle electrospinning and their application for fast lithium storage. Electrochemistry Communications, 2013, 28, 54-57.	2.3	43
102	Wedge Dyakonov Waves and Dyakonov Plasmons in Topological Insulator Bi₂Se₃ Probed by Electron Beams. ACS Nano, 2016, 10, 6988-6994.	7.3	43
103	The origin of high-mismatch orientation relationships for ultra-thin oxide overgrowths. Acta Materialia, 2007, 55, 6027-6037.	3.8	42
104	Annihilation of structural defects in chalcogenide absorber films for high-efficiency solar cells. Energy and Environmental Science, 2016, 9, 1818-1827.	15.6	42
105	Multipole Surface Plasmon Resonances in Conductively Coupled Metal Nanowire Dimers. ACS Nano, 2012, 6, 9711-9717.	7.3	39
106	Evolution of order in amorphous-to-crystalline phase transformation of MgF₂. Journal of Applied Crystallography, 2013, 46, 1105-1116.	1.9	39
107	Direct Observation of Huge Flexoelectric Polarization around Crack Tips. Nano Letters, 2020, 20, 88-94.	4.5	39
108	The modification of MoO3 nanoparticles supported on mesoporous SBA-15: characterization using X-ray scattering, N2 physisorption, transmission electron microscopy, high-angle annular darkfield technique, Raman and XAFS spectroscopy. Journal of Materials Science, 2008, 43, 244-253.	1.7	38

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109	Advances in ozonation and biodegradation processes to enhance chlorophenol abatement in multisubstrate wastewaters: a review. Environmental Science: Water Research and Technology, 2019, 5, 444-481.	1.2	38
110	Hollow Mesoporous Carbon Spheres for High Performance Symmetrical and Aqueous Zinc-Ion Hybrid Supercapacitor. Frontiers in Chemistry, 2020, 8, 663.	1.8	38
111	Hybridization approach to in-line and off-axis (electron) holography for superior resolution and phase sensitivity. Scientific Reports, 2014, 4, 7020.	1.6	37
112	Complex magnetic order in nickelate slabs. Nature Physics, 2018, 14, 1097-1102.	6.5	37
113	Kondo sideband effects in the Seebeck coefficient of Ce1â^'xLaxAlx compounds. Physics Letters, Section A: General, Atomic and Solid State Physics, 1974, 49, 201-203.	0.9	36
114	Chemical Modification of Single-Walled Carbon Nanotubes for the Reinforcement of Precursor-Derived Ceramics. Chemistry of Materials, 2008, 20, 5593-5599.	3.2	35
115	Multiwavelength-Steerable Visible-Light-Driven Magnetic CoOâ€“TiO₂ Microswimmers. ACS Applied Materials & Interfaces, 2020, 12, 24149-24155.	4.0	35
116	Strong magnetic linear dichroism in Fe L23 and O K electron energy-loss near-edge spectra of antiferromagnetic hematite ?-Fe2O3. Physics and Chemistry of Minerals, 2003, 30, 469-477.	0.3	34
117	Numerical simulations of interference effects in photon-assisted electron energy-loss spectroscopy. New Journal of Physics, 2013, 15, 053013.	1.2	34
118	A pilot-scale coupling of ozonation and biodegradation of 2,4-dichlorophenol-containing wastewater: The effect of biomass acclimation towards chlorophenol and intermediate ozonation products. Journal of Cleaner Production, 2017, 161, 1432-1441.	4.6	34
119	Lithium Potential Variations for Metastable Materials: Case Study of Nanocrystalline and Amorphous LiFePO₄. Nano Letters, 2014, 14, 5342-5349.	4.5	33
120	Polarity-driven nickel oxide precipitation in LaNiO3-LaAlO3 superlattices. Applied Physics Letters, 2011, 99, 211903.	1.5	32
121	Ruddlesden-Popper faults in LaNiO3/LaAlO3 superlattices. Journal of Applied Physics, 2012, 112, .	1.1	32
122	Field-Effect Transistors with Submicrometer Gate Lengths Fabricated from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LaAlO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ Heterostructures. Physical Review Applied, 2015, 4, .	1.5	32
123	Validating the technological feasibility of yttria-stabilized zirconia-based semiconducting-ionic composite in intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2018, 384, 318-327.	4.0	32
124	Topotactic transformation of single crystals: From perovskite to infinite-layer nickelates. Science Advances, 2021, 7, eabl8091.	4.7	32
125	Low-Temperature Growth of Silicon Nanotubes and Nanowires on Amorphous Substrates. ACS Nano, 2010, 4, 1805-1812.	7.3	31
126	Merging transformation optics with electron-driven photon sources. Nature Communications, 2019, 10, 599.	5.8	31

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127	DNA-templated synthesis of ZnO thin layers and nanowires. Nanotechnology, 2009, 20, 365302.	1.3	30
128	Microemulsions as Reaction Media for the Synthesis of Bimetallic Nanoparticles: Size and Composition of Particles. Chemistry of Materials, 2010, 22, 6263-6271.	3.2	30
129	Facile Preparation of MoS₂ Nanocomposites for Efficient Potassiumâ€Ion Batteries by Grindingâ€Promoted Intercalation Exfoliation. Small, 2021, 17, e2102263.	5.2	30
130	The heterogeneous composition of working place aerosols in a nickel refinery: a transmission and scanning electron microscope studyPresented at ENVIRONMIN 2001 at Skukuza, Kruger National Park, South Africa, 14â€“18 July 2001.Electronic supplementary information (ESI) available: TEM bright field images, energy-dispersive X-ray spectra and electron diffraction patterns of various phases observed in the refinery at Monchegorsk; (a) godlevskite, (b) heazlewoodite, (c) bunsenite, (d) trevorite, (e) amorphous sulf. Journal of Environmental Monitoring, 2002, 4, 344-350.	2.1	29
131	Interfaces in semiconductor/metal radial superlattices. Applied Physics Letters, 2007, 90, 263107.	1.5	29
132	Hydrogenâ€Bond Reinforced Vanadia Nanofiber Paper of High Stiffness. Advanced Materials, 2013, 25, 2468-2473.	11.1	29
133	Comparative study of LaNiO3/LaAlO3 heterostructures grown by pulsed laser deposition and oxide molecular beam epitaxy. Applied Physics Letters, 2017, 110, .	1.5	29
134	Silver nanowires with optimized silica coating as versatile plasmonic resonators. Scientific Reports, 2019, 9, 3859.	1.6	29
135	Nanocrystalline, porous periclase aggregates as product of brucite dehydration. European Journal of Mineralogy, 2001, 13, 329-341.	0.4	28
136	Mapping of valence energy losses via energy-filtered annular dark-field scanning transmission electron microscopy. Ultramicroscopy, 2009, 109, 1164-1170.	0.8	28
137	Breaking the Mode Degeneracy of Surface Plasmon Resonances in a Triangular System. Langmuir, 2012, 28, 8867-8873.	1.6	28
138	Large-scale low temperature fabrication of SnO₂hollow/nanoporous nanostructures: the template-engaged replacement reaction mechanism and high-rate lithium storage. Nanoscale, 2014, 6, 11411-11418.	2.8	28
139	Massive Dirac Fermion Observed in Lanthanide-Doped Topological Insulator Thin Films. Scientific Reports, 2015, 5, 15767.	1.6	28
140	Reflection and Phase Matching in Plasmonic Gold Tapers. Nano Letters, 2016, 16, 6137-6144.	4.5	28
141	Dopant size effects on novel functionalities: High-temperature interfacial superconductivity. Scientific Reports, 2017, 7, 453.	1.6	28
142	Crystal chemistry of wadsleyite II and water in the Earthâ€™s interior. Physics and Chemistry of Minerals, 2005, 31, 691-705.	0.3	27
143	A nondamaging electron microscopy approach to map In distribution in InGaN light-emitting diodes. Journal of Applied Physics, 2010, 108, .	1.1	27
144	Linking Microstructure and Nanochemistry in Human Dental Tissues. Microscopy and Microanalysis, 2012, 18, 509-523.	0.2	27

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145	Tailoring the electronic properties of Ca2RuO4 via epitaxial strain. Applied Physics Letters, 2018, 112, .	1.5	27
146	Jarosite Nanosheets Fabricated via Room-Temperature Synthesis as Cathode Materials for High-Rate Lithium Ion Batteries. Chemistry of Materials, 2015, 27, 3143-3149.	3.2	26
147	Correcting the linear and nonlinear distortions for atomically resolved STEM spectrum and diffraction imaging. Microscopy (Oxford, England), 2018, 67, i114-i122.	0.7	26
148	Inhomogeneous ferromagnetism mimics signatures of the topological Hall effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrRuO</mml:mi><mml:mn>3</mml:mn></mml:msub></m films. Physical Review Materials, 2020, 4, .	0.9	26
149	Impact of interfacial coupling of oxygen octahedra on ferromagnetic order in La0.7Sr0.3MnO3/SrTiO3 heterostructures. Scientific Reports, 2017, 7, 40068.	1.6	25
150	Design of Complex Oxide Interfaces by Oxide Molecular Beam Epitaxy. Journal of Superconductivity and Novel Magnetism, 2020, 33, 107-120.	0.8	25
151	Assembling Metal Organic Layer Composites for Highâ€Performance Electrocatalytic CO₂ Reduction to Formate. Angewandte Chemie - International Edition, 2022, 61, .	7.2	25
152	Comparison of Different Oxidation Methods for Recalcitrance Removal of Landfill Leachate. Ozone: Science and Engineering, 2011, 33, 294-300.	1.4	23
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