

Peter A Van Aken

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402
papers

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h-index

119
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424
ext. papers

17,571
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
402	Single-layered ultrasmall nanoplates of MoS ₂ embedded in carbon nanofibers with excellent electrochemical performance for lithium and sodium storage. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2152-6	16.4	777
401	Encapsulation of Sn@carbon nanoparticles in bamboo-like hollow carbon nanofibers as an anode material in lithium-based batteries. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6485-9	16.4	530
400	Reversible storage of lithium in silver-coated three-dimensional macroporous silicon. <i>Advanced Materials</i> , 2010 , 22, 2247-50	24	518
399	Nitrogen doped porous carbon fibres as anode materials for sodium ion batteries with excellent rate performance. <i>Nanoscale</i> , 2014 , 6, 1384-9	7.7	481
398	Carbon-coated Na ₃ V ₂ (PO ₄) ₃ embedded in porous carbon matrix: an ultrafast Na-storage cathode with the potential of outperforming Li cathodes. <i>Nano Letters</i> , 2014 , 14, 2175-80	11.5	392
397	Tin nanoparticles encapsulated in porous multichannel carbon microtubes: preparation by single-nozzle electrospinning and application as anode material for high-performance Li-based batteries. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15984-5	16.4	377
396	Self-supported Li ₄ Ti ₅ O ₁₂ -C nanotube arrays as high-rate and long-life anode materials for flexible Li-ion batteries. <i>Nano Letters</i> , 2014 , 14, 2597-603	11.5	365
395	Uniform yolk-shell Sn ₄ P ₃ @C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 3531-3538	35.4	350
394	Magnetization study of nanograined pure and Mn-doped ZnO films: Formation of a ferromagnetic grain-boundary foam. <i>Physical Review B</i> , 2009 , 79,	3.3	326
393	MOF-Derived Hollow Co ₉ S ₈ Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Li-Ion Storage. <i>Small</i> , 2016 , 12, 2354-64	11	274
392	Quantification of ferrous/ferric ratios in minerals: new evaluation schemes of Fe L _{2,3} electron energy-loss near-edge spectra. <i>Physics and Chemistry of Minerals</i> , 2002 , 29, 188-200	1.6	261
391	Dual-Functionalized Double Carbon Shells Coated Silicon Nanoparticles for High Performance Lithium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1605650	24	257
390	A Germanium-Carbon Nanocomposite Material for Lithium Batteries. <i>Advanced Materials</i> , 2008 , 20, 3079-3083	24	252
389	Facile Solid-State Growth of 3D Well-Interconnected Nitrogen-Rich Carbon Nanotube-Graphene Hybrid Architectures for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 1112-1119	15.6	246
388	Quantitative determination of iron oxidation states in minerals using Fe L _{2,3} -edge electron energy-loss near-edge structure spectroscopy. <i>Physics and Chemistry of Minerals</i> , 1998 , 25, 323-327	1.6	244
387	Electrospun Na ₃ V ₂ (PO ₄) ₃ /C nanofibers as stable cathode materials for sodium-ion batteries. <i>Nanoscale</i> , 2014 , 6, 5081-6	7.7	235
386	Facile synthesis of highly porous Ni-Sn intermetallic microcages with excellent electrochemical performance for lithium and sodium storage. <i>Nano Letters</i> , 2014 , 14, 6387-92	11.5	227

385	Energy Storage Materials from Nature through Nanotechnology: A Sustainable Route from Reed Plants to a Silicon Anode for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9632-6	16.4	214
384	Synthesizing Porous NaTi ₂ (PO ₄) ₃ Nanoparticles Embedded in 3D Graphene Networks for High-Rate and Long Cycle-Life Sodium Electrodes. <i>ACS Nano</i> , 2015 , 9, 6610-8	16.7	213
383	Peapod-Like Carbon-Encapsulated Cobalt Chalcogenide Nanowires as Cycle-Stable and High-Rate Materials for Sodium-Ion Anodes. <i>Advanced Materials</i> , 2016 , 28, 7276-83	24	212
382	Peapod-like Li VO /N-Doped Carbon Nanowires with Pseudocapacitive Properties as Advanced Materials for High-Energy Lithium-Ion Capacitors. <i>Advanced Materials</i> , 2017 , 29, 1700142	24	207
381	An interface clusters mixture model for the structure of amorphous silicon monoxide (SiO). <i>Journal of Non-Crystalline Solids</i> , 2003 , 320, 255-280	3.9	203
380	High Performance Graphene/Ni P Hybrid Anodes for Lithium and Sodium Storage through 3D Yolk-Shell-Like Nanostructural Design. <i>Advanced Materials</i> , 2017 , 29, 1604015	24	193
379	Nano-Pearl-String TiNb ₂ O ₇ as Anodes for Rechargeable Lithium Batteries. <i>Advanced Energy Materials</i> , 2013 , 3, 49-53	21.8	193
378	Carbon-encapsulated pyrite as stable and earth-abundant high energy cathode material for rechargeable lithium batteries. <i>Advanced Materials</i> , 2014 , 26, 6025-30	24	192
377	Hollow carbon nanospheres with a high rate capability for lithium-based batteries. <i>ChemSusChem</i> , 2012 , 5, 400-3	8.3	190
376	Low-temperature ionic-liquid-based synthesis of nanostructured iron-based fluoride cathodes for lithium batteries. <i>Advanced Materials</i> , 2010 , 22, 3650-4	24	189
375	High Power-High Energy Sodium Battery Based on Threefold Interpenetrating Network. <i>Advanced Materials</i> , 2016 , 28, 2409-16	24	182
374	Exfoliation of a non-van der Waals material from iron ore hematite. <i>Nature Nanotechnology</i> , 2018 , 13, 602-609	28.7	179
373	Ge/C nanowires as high-capacity and long-life anode materials for Li-ion batteries. <i>ACS Nano</i> , 2014 , 8, 7051-9	16.7	177
372	3D VO ₂ nanotextiles assembled from interconnected nanogrooves as cathode materials for high-energy lithium ion batteries. <i>Nano Letters</i> , 2015 , 15, 1388-94	11.5	160
371	A General Strategy to Fabricate Carbon-Coated 3D Porous Interconnected Metal Sulfides: Case Study of SnS/C Nanocomposite for High-Performance Lithium and Sodium Ion Batteries. <i>Advanced Science</i> , 2015 , 2, 1500200	13.6	158
370	Fast Li Storage in MoS ₂ -Graphene-Carbon Nanotube Nanocomposites: Advantageous Functional Integration of 0D, 1D, and 2D Nanostructures. <i>Advanced Energy Materials</i> , 2015 , 5, 1401170	21.8	142
369	An FeF ₃ ·0.5H ₂ O polytype: a microporous framework compound with intersecting tunnels for Li and Na batteries. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11425-8	16.4	142
368	High Lithium Storage Performance of FeS Nanodots in Porous Graphitic Carbon Nanowires. <i>Advanced Functional Materials</i> , 2015 , 25, 2335-2342	15.6	130

367	A high-performance self-powered broadband photodetector based on a CH ₃ NH ₃ PbI ₃ perovskite/ZnO nanorod array heterostructure. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7302-7308	7.1	130
366	Mössbauer and ELNES spectroscopy of (Mg,Fe)(Si,Al)O ₃ perovskite: a highly oxidised component of the lower mantle. <i>Contributions To Mineralogy and Petrology</i> , 2000 , 138, 17-26	3.5	124
365	A Lamellar Hybrid Assembled from Metal Disulfide Nanowall Arrays Anchored on a Carbon Layer: In Situ Hybridization and Improved Sodium Storage. <i>Advanced Materials</i> , 2016 , 28, 7774-82	24	122
364	Toroidal plasmonic eigenmodes in oligomer nanocavities for the visible. <i>Nano Letters</i> , 2012 , 12, 5239-44	11.5	122
363	Surface plasmon modes of a single silver nanorod: an electron energy loss study. <i>Optics Express</i> , 2011 , 19, 15371-9	3.3	116
362	A High Power High Energy Na ₃ V ₂ (PO ₄) ₂ F ₃ Sodium Cathode: Investigation of Transport Parameters, Rational Design and Realization. <i>Chemistry of Materials</i> , 2017 , 29, 5207-5215	9.6	109
361	1s2p resonant inelastic X-ray scattering of iron oxides. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20751-54	5.2	96
360	A High-Capacity Cathode for Lithium Batteries Consisting of Porous Microspheres of Highly Amorphized Iron Fluoride Densified from Its Open Parent Phase. <i>Advanced Energy Materials</i> , 2013 , 3, 113-119	21.8	93
359	Dopant Segregation and Space Charge Effects in Proton-Conducting BaZrO ₃ Perovskites. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2453-2461	3.8	89
358	Possibly Mixed Valency of Uranium in UNi ₅ Cu _x . <i>Physical Review Letters</i> , 1975 , 34, 1457-1460	7.4	88
357	Cross-Linking Hollow Carbon Sheet Encapsulated CuP Nanocomposites for High Energy Density Sodium-Ion Batteries. <i>ACS Nano</i> , 2018 , 12, 7018-7027	16.7	86
356	A Sulfur-Limonene-Based Electrode for Lithium-Sulfur Batteries: High-Performance by Self-Protection. <i>Advanced Materials</i> , 2018 , 30, e1706643	24	85
355	In situ reduction and coating of SnS ₂ nanobelts for free-standing SnS@polypyrrole-nanobelt/carbon-nanotube paper electrodes with superior Li-ion storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5259-5265	13	85
354	Band-gap measurements of direct and indirect semiconductors using monochromated electrons. <i>Physical Review B</i> , 2007 , 75,	3.3	82
353	Ultrathin Ti Nb O Nanosheets with Pseudocapacitive Properties as Superior Anode for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2018 , 30, e1804378	24	81
352	Phase boundary propagation in large LiFePO ₄ single crystals on delithiation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2988-92	16.4	78
351	Direct imaging of surface plasmon resonances on single triangular silver nanoprisms at optical wavelength using low-loss EFTEM imaging. <i>Optics Letters</i> , 2009 , 34, 1003-5	3	77
350	Charge separation and transport in La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} and ion-doping ceria heterostructure material for new generation fuel cell. <i>Nano Energy</i> , 2017 , 37, 195-202	17.1	75

349	Graphene-Protected 3D Sb-based Anodes Fabricated via Electrostatic Assembly and Confinement Replacement for Enhanced Lithium and Sodium Storage. <i>Small</i> , 2015 , 11, 6026-35	11	75
348	Preparation and characterization of Sm and Ca co-doped ceria $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ semiconductor r^{bnc} composites for electrolyte-layer-free fuel cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15426-15436	13	74
347	Resonant wedge-plasmon modes in single-crystalline gold nanoplatelets. <i>Physical Review B</i> , 2011 , 83,	3.3	74
346	High-pressure synthesis of crystalline carbon nitride imide, $\text{C}_2\text{N}_2(\text{NH})$. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1476-80	16.4	74
345	A novel germanium/carbon nanotubes nanocomposite for lithium storage material. <i>Electrochimica Acta</i> , 2010 , 55, 985-988	6.7	73
344	Tiny $\text{Li}_4\text{Ti}_5\text{O}_{12}$ nanoparticles embedded in carbon nanofibers as high-capacity and long-life anode materials for both Li-ion and Na-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 20813-8	3.6	71
343	Experimental realization of graded $\text{Li}_0\text{-FePt}/\text{Fe}$ composite media with perpendicular magnetization. <i>Journal of Applied Physics</i> , 2008 , 104, 083903	2.5	69
342	The seebeck coefficient of YbAl_2 and YbAl_3 . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1974 , 49, 246-248	2.3	69
341	Visualization of multipolar longitudinal and transversal surface plasmon modes in nanowire dimers. <i>ACS Nano</i> , 2011 , 5, 9845-53	16.7	67
340	Engineering nanostructured electrode materials for high performance sodium ion batteries: a case study of a 3D porous interconnected WS_2/C nanocomposite. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20487-20493	13	64
339	Theory and applications of toroidal moments in electrodynamics: their emergence, characteristics, and technological relevance. <i>Nanophotonics</i> , 2018 , 7, 93-110	6.3	64
338	Toughening through nature-adapted nanoscale design. <i>Nano Letters</i> , 2009 , 9, 4103-8	11.5	63
337	An efficient, simple, and precise way to map strain with nanometer resolution in semiconductor devices. <i>Applied Physics Letters</i> , 2010 , 96, 091901	3.4	63
336	Kondo Sidebands in CeAl_3 and Related Pseudobinary Compounds. <i>Physical Review B</i> , 1971 , 3, 1662-1670	3.3	63
335	Oxidation state of iron in hydrous mantle phases: implications for subduction and mantle oxygen fugacity. <i>Physics of the Earth and Planetary Interiors</i> , 2004 , 143-144, 157-169	2.3	60
334	The effect of ozonation on the toxicity and biodegradability of 2,4-dichlorophenol-containing wastewater. <i>Chemical Engineering Journal</i> , 2015 , 280, 728-736	14.7	58
333	Oxygen-evolving catalytic atoms on metal carbides. <i>Nature Materials</i> , 2021 , 20, 1240-1247	27	58
332	Hierarchical Metal Sulfide/Carbon Spheres: A Generalized Synthesis and High Sodium-Storage Performance. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7238-7243	16.4	57

331	Fe/Mg partitioning between ringwoodite and magnesiowüstite and the effect of pressure, temperature and oxygen fugacity. <i>Physics and Chemistry of Minerals</i> , 2001 , 28, 455-470	1.6	52
330	Elucidating the Mechanism of an RbF Post Deposition Treatment in CIGS Thin Film Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800156	7.1	51
329	Excitation of Mesoscopic Plasmonic Tapers by Relativistic Electrons: Phase Matching versus Eigenmode Resonances. <i>ACS Nano</i> , 2015 , 9, 7641-8	16.7	49
328	Iron oxidation state in lower mantle mineral assemblages: I. Empirical relations derived from high-pressure experiments. <i>Earth and Planetary Science Letters</i> , 2004 , 222, 435-449	5.3	49
327	Hybridized metal slit eigenmodes as an illustration of Babinet's principle. <i>ACS Nano</i> , 2011 , 5, 6701-6	16.7	48
326	Nano-crystallization in LaF ₃ /Na ₂ O/Al ₂ O ₃ /SiO ₂ glass. <i>Journal of Crystal Growth</i> , 2009 , 311, 4350-4355	1.6	46
325	Core level electron energy-loss spectra of minerals: pre-edge fine structures at the oxygen K-edge. <i>Physics and Chemistry of Minerals</i> , 1998 , 25, 494-498	1.6	46
324	Grain-boundary types in chalcopyrite-type thin films and their correlations with film texture and electrical properties. <i>Thin Solid Films</i> , 2009 , 517, 2545-2549	2.2	45
323	High-temperature superconductivity in space-charge regions of lanthanum cuprate induced by two-dimensional doping. <i>Nature Communications</i> , 2015 , 6, 8586	17.4	44
322	Rapid and up-scalable fabrication of free-standing metal oxide nanosheets for high-performance lithium storage. <i>Small</i> , 2015 , 11, 2011-8	11	44
321	Oxygen octahedra picker: A software tool to extract quantitative information from STEM images. <i>Ultramicroscopy</i> , 2016 , 168, 46-52	3.1	44
320	Delithiation Study of LiFePO ₄ Crystals Using Electron Energy-Loss Spectroscopy. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, A151		44
319	3D Honeycomb Architecture Enables a High-Rate and Long-Life Iron (III) Fluoride-Lithium Battery. <i>Advanced Materials</i> , 2019 , 31, e1905146	24	43
318	A carbon/titanium vanadium nitride composite for lithium storage. <i>ChemPhysChem</i> , 2010 , 11, 3219-23	3.2	43
317	Electron energy losses in Ag nanoholes--from localized surface plasmon resonances to rings of fire. <i>Optics Letters</i> , 2009 , 34, 2150-2	3	42
316	Compositional and electrical properties of line and planar defects in Cu(In,Ga)Se ₂ thin films for solar cells -- a review. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016 , 10, 363-375	2.5	42
315	Multichannel hollow TiO ₂ nanofibers fabricated by single-nozzle electrospinning and their application for fast lithium storage. <i>Electrochemistry Communications</i> , 2013 , 28, 54-57	5.1	41
314	Au-Ag hybrid nanoparticle patterns of tunable size and density on glass and polymeric supports. <i>Langmuir</i> , 2012 , 28, 1562-8	4	41

313	Fuel-Free Nanocap-Like Motors Actuated Under Visible Light. <i>Advanced Functional Materials</i> , 2018 , 28, 1705862	15.6	40
312	Sample tilt effects on atom column position determination in ABF-STEM imaging. <i>Ultramicroscopy</i> , 2016 , 160, 110-117	3.1	40
311	Metal-organic framework-derived high conductivity Fe ₃ C with porous carbon on graphene as advanced anode materials for aqueous battery-supercapacitor hybrid devices. <i>Journal of Power Sources</i> , 2020 , 448, 227403	8.9	40
310	The origin of high-mismatch orientation relationships for ultra-thin oxide overgrowths. <i>Acta Materialia</i> , 2007 , 55, 6027-6037	8.4	39
309	Cerium reduction at the interface between ceria and yttria-stabilised zirconia and implications for interfacial oxygen non-stoichiometry. <i>APL Materials</i> , 2014 , 2, 032104	5.7	38
308	The Importance of Grain Boundaries for the Time-Dependent Mobility Degradation in Organic Thin-Film Transistors. <i>Chemistry of Materials</i> , 2009 , 21, 4949-4954	9.6	38
307	Wedge Dyakonov Waves and Dyakonov Plasmons in Topological Insulator Bi ₂ Se ₃ Probed by Electron Beams. <i>ACS Nano</i> , 2016 , 10, 6988-94	16.7	37
306	Multipole surface plasmon resonances in conductively coupled metal nanowire dimers. <i>ACS Nano</i> , 2012 , 6, 9711-7	16.7	37
305	Microanalysis of Fe ³⁺ /Be in oxide and silicate minerals by investigation of electron energy-loss near-edge structures (ELNES) at the Fe M _{2,3} edge. <i>Physics and Chemistry of Minerals</i> , 1999 , 26, 584-590	1.6	37
304	Top-down synthesis of interconnected two-dimensional carbon/antimony hybrids as advanced anodes for sodium storage. <i>Energy Storage Materials</i> , 2018 , 10, 122-129	19.4	36
303	Experimental investigation of smectite interaction with metal iron at 80 °C: Structural characterization of newly formed Fe-rich phyllosilicates. <i>American Mineralogist</i> , 2012 , 97, 864-871	2.9	35
302	Kondo sideband effects in the Seebeck coefficient of Ce _{1-x} La _x Al _x compounds. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1974 , 49, 201-203	2.3	35
301	The modification of MoO ₃ nanoparticles supported on mesoporous SBA-15: characterization using X-ray scattering, N ₂ physisorption, transmission electron microscopy, high-angle annular darkfield technique, Raman and XAFS spectroscopy. <i>Journal of Materials Science</i> , 2008 , 43, 244-253	4.3	34
300	Numerical simulations of interference effects in photon-assisted electron energy-loss spectroscopy. <i>New Journal of Physics</i> , 2013 , 15, 053013	2.9	32
299	Chemical Modification of Single-Walled Carbon Nanotubes for the Reinforcement of Precursor-Derived Ceramics. <i>Chemistry of Materials</i> , 2008 , 20, 5593-5599	9.6	32
298	Annihilation of structural defects in chalcogenide absorber films for high-efficiency solar cells. <i>Energy and Environmental Science</i> , 2016 , 9, 1818-1827	35.4	32
297	Strong magnetic linear dichroism in Fe L ₂₃ and O K electron energy-loss near-edge spectra of antiferromagnetic hematite (Fe ₂ O ₃). <i>Physics and Chemistry of Minerals</i> , 2003 , 30, 469-477	1.6	31
296	Synthetic tourmaline (olenite) with excess boron replacing silicon in the tetrahedral site: I. Synthesis conditions, chemical and spectroscopic evidence. <i>European Journal of Mineralogy</i> , 2000 , 12, 529-541	2.2	31

295	Polarity-driven nickel oxide precipitation in LaNiO ₃ -LaAlO ₃ superlattices. <i>Applied Physics Letters</i> , 2011 , 99, 211903	3.4	30
294	Advances in ozonation and biodegradation processes to enhance chlorophenol abatement in multisubstrate wastewaters: a review. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 444-481	4.2	29
293	Field-Effect Transistors with Submicrometer Gate Lengths Fabricated from LaAlO ₃ /SrTiO ₃ -Based Heterostructures. <i>Physical Review Applied</i> , 2015 , 4,	4.3	29
292	Long-range charge-density-wave proximity effect at cuprate/manganate interfaces. <i>Nature Materials</i> , 2016 , 15, 831-4	27	28
291	Ruddlesden-Popper faults in LaNiO ₃ /LaAlO ₃ superlattices. <i>Journal of Applied Physics</i> , 2012 , 112, 013502.5	2.5	28
290	Evolution of order in amorphous-to-crystalline phase transformation of MgF ₂ . <i>Journal of Applied Crystallography</i> , 2013 , 46, 1105-1116	3.8	28
289	Microemulsions as Reaction Media for the Synthesis of Bimetallic Nanoparticles: Size and Composition of Particles. <i>Chemistry of Materials</i> , 2010 , 22, 6263-6271	9.6	28
288	Mapping of valence energy losses via energy-filtered annular dark-field scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2009 , 109, 1164-70	3.1	28
287	Natural Vermiculite Enables High-Performance in Lithium/Sulfur Batteries via Electrical Double Layer Effects. <i>Advanced Functional Materials</i> , 2019 , 29, 1902820	15.6	27
286	Lithium potential variations for metastable materials: case study of nanocrystalline and amorphous LiFePO ₄ . <i>Nano Letters</i> , 2014 , 14, 5342-9	11.5	27
285	DNA-templated synthesis of ZnO thin layers and nanowires. <i>Nanotechnology</i> , 2009 , 20, 365302	3.4	27
284	Low-temperature growth of silicon nanotubes and nanowires on amorphous substrates. <i>ACS Nano</i> , 2010 , 4, 1805-12	16.7	27
283	Interfaces in semiconductor/metal radial superlattices. <i>Applied Physics Letters</i> , 2007 , 90, 263107	3.4	27
282	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. <i>Journal of Cleaner Production</i> , 2017 , 161, 1432-1441	10.3	26
281	Large-scale low temperature fabrication of SnO ₂ hollow/nanoporous nanostructures: the template-engaged replacement reaction mechanism and high-rate lithium storage. <i>Nanoscale</i> , 2014 , 6, 11411-8	7.7	26
280	Jarosite Nanosheets Fabricated via Room-Temperature Synthesis as Cathode Materials for High-Rate Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2015 , 27, 3143-3149	9.6	25
279	Validating the technological feasibility of yttria-stabilized zirconia-based semiconducting-ionic composite in intermediate-temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2018 , 384, 318-327	8.9	25
278	Breaking the mode degeneracy of surface plasmon resonances in a triangular system. <i>Langmuir</i> , 2012 , 28, 8867-73	4	25

277	The heterogeneous composition of working place aerosols in a nickel refinery: a transmission and scanning electron microscope study. <i>Journal of Environmental Monitoring</i> , 2002 , 4, 344-50		25
276	Dopant size effects on novel functionalities: High-temperature interfacial superconductivity. <i>Scientific Reports</i> , 2017 , 7, 453	4.9	24
275	Linking microstructure and nanochemistry in human dental tissues. <i>Microscopy and Microanalysis</i> , 2012 , 18, 509-23	0.5	24
274	Hydrogen-bond reinforced vanadia nanofiber paper of high stiffness. <i>Advanced Materials</i> , 2013 , 25, 2468-73	2.4	24
273	Reflection and Phase Matching in Plasmonic Gold Tapers. <i>Nano Letters</i> , 2016 , 16, 6137-6144	11.5	23
272	Complex magnetic order in nickelate slabs. <i>Nature Physics</i> , 2018 , 14, 1097-1102	16.2	23
271	Nanocrystalline, porous periclase aggregates as product of brucite dehydration. <i>European Journal of Mineralogy</i> , 2001 , 13, 329-341	2.2	23
270	Comparative study of LaNiO ₃ /LaAlO ₃ heterostructures grown by pulsed laser deposition and oxide molecular beam epitaxy. <i>Applied Physics Letters</i> , 2017 , 110, 041606	3.4	22
269	Hybridization approach to in-line and off-axis (electron) holography for superior resolution and phase sensitivity. <i>Scientific Reports</i> , 2014 , 4, 7020	4.9	22
268	Metal-Organic Framework-Derived Nanoconfinements of CoF and Mixed-Conducting Wiring for High-Performance Metal Fluoride-Lithium Battery. <i>ACS Nano</i> , 2021 , 15, 1509-1518	16.7	22
267	Correcting the linear and nonlinear distortions for atomically resolved STEM spectrum and diffraction imaging. <i>Microscopy (Oxford, England)</i> , 2018 , 67, i114-i122	1.3	22
266	Massive Dirac Fermion Observed in Lanthanide-Doped Topological Insulator Thin Films. <i>Scientific Reports</i> , 2015 , 5, 15767	4.9	21
265	Crystal chemistry of wadsleyite II and water in the Earth's interior. <i>Physics and Chemistry of Minerals</i> , 2005 , 31, 691-705	1.6	21
264	Impact of interfacial coupling of oxygen octahedra on ferromagnetic order in LaSrMnO/SrTiO heterostructures. <i>Scientific Reports</i> , 2017 , 7, 40068	4.9	20
263	Multiwavelength-Steerable Visible-Light-Driven Magnetic CoO-TiO Microswimmers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24149-24155	9.5	20
262	Toward quantitative core-loss EFTEM tomography. <i>Ultramicroscopy</i> , 2011 , 111, 1255-61	3.1	20
261	Electric conduction properties of boron-doped ceria. <i>Solid State Ionics</i> , 2011 , 192, 65-69	3.3	20
260	Comparison of Different Oxidation Methods for Recalcitrance Removal of Landfill Leachate. <i>Ozone: Science and Engineering</i> , 2011 , 33, 294-300	2.4	20

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