

Chang Q Sun

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564
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15,951
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609
ext. papers

17,228
ext. citations

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L-index

#	Paper	IF	Citations
564	Size dependence of nanostructures: Impact of bond order deficiency. <i>Progress in Solid State Chemistry</i> , 2007 , 35, 1-159	8	691
563	UV-assisted photocatalytic synthesis of ZnO-reduced graphene oxide composites with enhanced photocatalytic activity in reduction of Cr(VI). <i>Chemical Engineering Journal</i> , 2012 , 183, 238-243	14.7	343
562	Microwave-assisted synthesis of CdS-reduced graphene oxide composites for photocatalytic reduction of Cr(VI). <i>Chemical Communications</i> , 2011 , 47, 11984-6	5.8	283
561	Covalent attachment of glucose oxidase to an Au electrode modified with gold nanoparticles for use as glucose biosensor. <i>Bioelectrochemistry</i> , 2005 , 67, 15-22	5.6	271
560	Thermo-mechanical behavior of low-dimensional systems: The local bond average approach. <i>Progress in Materials Science</i> , 2009 , 54, 179-307	42.2	228
559	Well-Aligned Cone-Shaped Nanostructure of Polypyrrole/RuO ₂ and Its Electrochemical Supercapacitor. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14843-14847	3.8	215
558	Correlation between the Melting Point of a Nanosolid and the Cohesive Energy of a Surface Atom. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 10701-10705	3.4	188
557	Glucose oxidase/colloidal gold nanoparticles immobilized in Nafion film on glassy carbon electrode: Direct electron transfer and electrocatalysis. <i>Bioelectrochemistry</i> , 2006 , 69, 158-63	5.6	184
556	Microwave-assisted synthesis of ZnO-graphene composite for photocatalytic reduction of Cr(VI). <i>Catalysis Science and Technology</i> , 2011 , 1, 1189	5.5	183
555	Pt-Pb nanowire array electrode for enzyme-free glucose detection. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 579-85	11.8	180
554	Oxidation electronics: bond and barrier correlation and its applications. <i>Progress in Materials Science</i> , 2003 , 48, 521-685	42.2	177
553	Tailoring Zinc Oxide Nanowires for High Performance Amperometric Glucose Sensor. <i>Electroanalysis</i> , 2007 , 19, 1008-1014	3	173
552	Edge Hydrogenation-Induced Spin-Filtering and Rectifying Behaviors in the Graphene Nanoribbon Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 25072-25076	3.8	168
551	Enzyme-free glucose sensor based on a three-dimensional gold film electrode. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 471-476	8.5	165
550	Immobilization of glucose oxidase on gold nanoparticles modified Au electrode for the construction of biosensor. <i>Sensors and Actuators B: Chemical</i> , 2005 , 109, 367-374	8.5	147
549	Phosphorus-doped 3D carbon nanofiber aerogels derived from bacterial-cellulose for highly-efficient capacitive deionization. <i>Carbon</i> , 2018 , 130, 377-383	10.4	145
548	Efficient charge separation between UiO-66 and ZnIn ₂ S ₄ flowerlike 3D microspheres for photoelectronchemical properties. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 234-241	21.8	143

547	Microwave-assisted synthesis of TiO ₂ -reduced graphene oxide composites for the photocatalytic reduction of Cr(VI). <i>RSC Advances</i> , 2011 , 1, 1245	3.7	140
546	Electrochemical thin film deposition of polypyrrole on different substrates. <i>Surface and Coatings Technology</i> , 2005 , 198, 474-477	4.4	134
545	Switching, Dual Spin-Filtering Effects, and Negative Differential Resistance in a Carbon-Based Molecular Device. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2570-2574	3.8	127
544	Carbon nanotube/ZnO nanocomposite electrodes for supercapacitors. <i>Solid State Ionics</i> , 2009 , 180, 1525-1528	3.528	120
543	Fe ₂ O ₃ -reduced graphene oxide composites synthesized via microwave-assisted method for sodium ion batteries. <i>Electrochimica Acta</i> , 2015 , 166, 12-16	6.7	118
542	Template-Free Electrochemical Synthesis of Superhydrophilic Polypyrrole Nanofiber Network. <i>Macromolecules</i> , 2008 , 41, 7053-7057	5.5	118
541	Gold nanoparticles-mesoporous silica composite used as an enzyme immobilization matrix for amperometric glucose biosensor construction. <i>Sensors and Actuators B: Chemical</i> , 2007 , 124, 179-186	8.5	116
540	Dominance of broken bonds and nonbonding electrons at the nanoscale. <i>Nanoscale</i> , 2010 , 2, 1930-61	7.7	115
539	Hydrogen-bond relaxation dynamics: Resolving mysteries of water ice. <i>Coordination Chemistry Reviews</i> , 2015 , 285, 109-165	23.2	114
538	Multilayered construction of glucose oxidase and gold nanoparticles on Au electrodes based on layer-by-layer covalent attachment. <i>Electrochemistry Communications</i> , 2006 , 8, 665-672	5.1	113
537	Corrosion resistance of CrAlN and TiAlN coatings deposited by lateral rotating cathode arc. <i>Thin Solid Films</i> , 2008 , 516, 5716-5720	2.2	112
536	Growth, structural, and magnetic properties of iron nitride thin films deposited by dc magnetron sputtering. <i>Applied Surface Science</i> , 2003 , 220, 30-39	6.7	112
535	Surface and nanosolid core-level shift: Impact of atomic coordination-number imperfection. <i>Physical Review B</i> , 2004 , 69,	3.3	111
534	Bond-order/bond-length/bond-strength (bond-OLS) correlation mechanism for the shape-and-size dependence of a nanosolid. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 7781-7795	1.8	111
533	Size dependence of Zn 2p 3/2 binding energy in nanocrystalline ZnO. <i>Applied Physics Letters</i> , 2006 , 88, 173118	3.4	109
532	Kinetics and thermodynamics study for electrosorption of NaCl onto carbon nanotubes and carbon nanofibers electrodes. <i>Chemical Physics Letters</i> , 2010 , 485, 161-166	2.5	107
531	Carbon nanotube/zinc oxide electrode and gel polymer electrolyte for electrochemical supercapacitors. <i>Journal of Alloys and Compounds</i> , 2009 , 480, L17-L19	5.7	104
530	Dimension, Strength, and Chemical and Thermal Stability of a Single C-C Bond in Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7544-7546	3.4	104

529	Coordination-resolved electron spectrometrics. <i>Chemical Reviews</i> , 2015 , 115, 6746-810	68.1	103
528	Density and Phonon-Stiffness Anomalies of Water and Ice in the Full Temperature Range. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3238-44	6.4	101
527	Grain-size effect on ferroelectric Pb(Zr _{1-x} Ti _x)O ₃ solid solutions induced by surface bond contraction. <i>Physical Review B</i> , 2001 , 63,	3.3	101
526	Nanophotocatalysts via microwave-assisted solution-phase synthesis for efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8299	13	99
525	Density, Elasticity, and Stability Anomalies of Water Molecules with Fewer than Four Neighbors. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2565-70	6.4	98
524	Thickness effect on the band gap and optical properties of germanium thin films. <i>Journal of Applied Physics</i> , 2010 , 107, 024305	2.5	98
523	Atomistic origin of lattice strain on stiffness of nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1543-9	3.6	97
522	Fabrication of ultrathin film containing bienzyme of glucose oxidase and glucoamylase based on electrostatic interaction and its potential application as a maltose sensor. <i>Macromolecular Chemistry and Physics</i> , 1996 , 197, 147-153	2.6	92
521	Electrochemical Detection of Nitric Oxide on a SWCNT/RTIL Composite Gel Microelectrode. <i>Electroanalysis</i> , 2006 , 18, 713-718	3	90
520	Thermally tuning of the photonic band gap of SiO ₂ colloid-crystal infilled with ferroelectric BaTiO ₃ . <i>Applied Physics Letters</i> , 2001 , 78, 661-663	3.4	90
519	Multilayered construction of glucose oxidase and silica nanoparticles on Au electrodes based on layer-by-layer covalent attachment. <i>Biomaterials</i> , 2006 , 27, 4042-9	15.6	88
518	Visible light photocatalytic degradation of dyes by bismuth oxide-reduced graphene oxide composites prepared via microwave-assisted method. <i>Journal of Colloid and Interface Science</i> , 2013 , 408, 145-50	9.3	81
517	Electrosynthesis and characterization of polypyrrole/Au nanocomposite. <i>Electrochimica Acta</i> , 2007 , 52, 2845-2849	6.7	80
516	Synthesis and electrical transport of novel channel-structured beta-AgVO ₃ . <i>Small</i> , 2007 , 3, 1174-7	11	78
515	Bond contraction and lone pair interaction at nitride surfaces. <i>Journal of Applied Physics</i> , 2001 , 90, 2615-2617	2.5	78
514	Coordination-Resolved C-C Bond Length and the C 1s Binding Energy of Carbon Allotropes and the Effective Atomic Coordination of the Few-Layer Graphene. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16464-16467	3.8	77
513	The hidden force opposing ice compression. <i>Chemical Science</i> , 2012 , 3, 1455	9.4	76
512	Size, temperature, and bond nature dependence of elasticity and its derivatives on extensibility, Debye temperature, and heat capacity of nanostructures. <i>Physical Review B</i> , 2007 , 75,	3.3	75

511	Elucidating SiBi Dimmer Vibration from the Size-Dependent Raman Shift of Nanosolid Si. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 3404-3406	3.4	74
510	An extended 'quantum confinement' theory: surface-coordination imperfection modifies the entire band structure of a nanosolid. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 3470-3479	3	73
509	Cu ₂ In ₂ ZnS ₅ /Gd ₂ O ₂ S:Tb for full solar spectrum photoreduction of Cr(VI) and CO ₂ from UV/vis to near-infrared light. <i>Applied Catalysis B: Environmental</i> , 2019 , 249, 82-90	21.8	72
508	Electronic process of nitriding: Mechanism and applications. <i>Progress in Solid State Chemistry</i> , 2006 , 34, 1-20	8	72
507	Coordination Imperfection Suppressed Phase Stability of Ferromagnetic, Ferroelectric, and Superconductive Nanosolids. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 1080-1084	3.4	71
506	One-step synthesis of CdS@TiO ₂ @chemically reduced graphene oxide composites via microwave-assisted reaction for visible-light photocatalytic degradation of methyl orange. <i>Catalysis Science and Technology</i> , 2012 , 2, 754	5.5	69
505	Underneath the fascinations of carbon nanotubes and graphene nanoribbons. <i>Energy and Environmental Science</i> , 2011 , 4, 627	35.4	69
504	ZnO meso-mechano-thermo physical chemistry. <i>Chemical Reviews</i> , 2012 , 112, 2833-52	68.1	68
503	Impedance labelless detection-based polypyrrole protein biosensor. <i>Frontiers in Bioscience - Landmark</i> , 2005 , 10, 2518-26	2.8	68
502	Synthesis of Ferrocene-Branched Chitosan Derivatives: Redox Polysaccharides and their Application to Reagentless Enzyme-Based Biosensors. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 265-270	4.8	65
501	Size, separation, structural order, and mass density of molecules packing in water and ice. <i>Scientific Reports</i> , 2013 , 3, 3005	4.9	64
500	Nanoporous structures: smaller is stronger. <i>Small</i> , 2008 , 4, 1359-62	11	63
499	Raman spectroscopic determination of the length, strength, compressibility, Debye temperature, elasticity, and force constant of the C-C bond in graphene. <i>Nanoscale</i> , 2012 , 4, 502-10	7.7	62
498	Size-induced undercooling and overheating in phase transitions in bare and embedded clusters. <i>Physical Review B</i> , 2006 , 73,	3.3	62
497	Refractive indices of textured indium tin oxide and zinc oxide thin films. <i>Thin Solid Films</i> , 2006 , 510, 95-101	10.1	62
496	Impedance labelless detection-based polypyrrole DNA biosensor. <i>Frontiers in Bioscience - Landmark</i> , 2005 , 10, 180-6	2.8	62
495	Synergistic conversion and removal of total Cr from aqueous solution by photocatalysis and capacitive deionization. <i>Chemical Engineering Journal</i> , 2018 , 337, 398-404	14.7	61
494	A first principles study on the full-Heusler compound Cr ₂ MnAl. <i>Applied Physics Letters</i> , 2009 , 94, 242502	3.4	61

493	Nanometric-layered CrN/TiN thin films: mechanical strength and thermal stability. <i>Thin Solid Films</i> , 2003 , 424, 99-102	2.2	61
492	Design of Pt/t-ZrO ₂ /g-C ₃ N ₄ efficient photocatalyst for the hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 251, 305-312	21.8	60
491	Atomistic origin, temperature dependence, and responsibilities of surface energetics: An extended broken-bond rule. <i>Physical Review B</i> , 2007 , 75,	3.3	60
490	Microstructure, magnetic, and optical properties of sputtered Mn-doped ZnO films with high-temperature ferromagnetism. <i>Journal of Applied Physics</i> , 2007 , 101, 023904	2.5	60
489	Highly efficient photocatalytic degradation of different hazardous contaminants by CaIn ₂ S ₄ -Ti ₃ C ₂ T _x Schottky heterojunction: An experimental and mechanism study. <i>Chemical Engineering Journal</i> , 2021 , 421, 127838	14.7	60
488	Relaxation of the Chemical Bond. <i>Springer Series in Chemical Physics</i> , 2014 ,	0.3	59
487	Controllable synthesis and luminescent properties of novel erythrocyte-like CaMoO ₄ hierarchical nanostructures via a simple surfactant-free hydrothermal route. <i>Dalton Transactions</i> , 2010 , 39, 2226-31	4.3	59
486	Site-selective lateral multilayer assembly of bienzyme with polyelectrolyte on ITO electrode based on electric field-induced directly layer-by-layer deposition. <i>Biomacromolecules</i> , 2003 , 4, 1161-7	6.9	59
485	Waste bones derived nitrogen-doped carbon with high micropore ratio towards supercapacitor applications. <i>Journal of Colloid and Interface Science</i> , 2019 , 547, 92-101	9.3	57
484	Hexagonal 2H-MoSe broad spectrum active photocatalyst for Cr(VI) reduction. <i>Scientific Reports</i> , 2016 , 6, 35304	4.9	55
483	Coulomb Repulsion at the Nanometer-Sized Contact: A Force Driving Superhydrophobicity, Superfluidity, Superlubricity, and Supersolidity. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20009-20019	3.8	55
482	Interfacial structure, residual stress and adhesion of diamond coatings deposited on titanium. <i>Thin Solid Films</i> , 2003 , 424, 107-114	2.2	55
481	Water's phase diagram: From the notion of thermodynamics to hydrogen-bond cooperativity. <i>Progress in Solid State Chemistry</i> , 2015 , 43, 71-81	8	54
480	A common supersolid skin covering both water and ice. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22987-94	3.6	53
479	Size-induced elastic stiffening of ZnO nanostructures: Skin-depth energy pinning. <i>Applied Physics Letters</i> , 2009 , 94, 131902	3.4	53
478	Visible light photocatalytic degradation of methylene blue by SnO ₂ quantum dots prepared via microwave-assisted method. <i>Catalysis Science and Technology</i> , 2013 , 3, 1805	5.5	52
477	All spray pyrolysis deposited CdS sensitized ZnO films for quantum dot-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 362-365	5.7	52
476	Size-induced acoustic hardening and optic softening of phonons in InP, CeO ₂ , SnO ₂ , CdS, Ag, and Si nanostructures. <i>Physical Review B</i> , 2005 , 72,	3.3	52

475	Dominance of Broken Bonds and Unpaired Nonbonding π Electrons in the Band Gap Expansion and Edge States Generation in Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18927-18934	3.8	51
474	Unexpected monoatomic catalytic-host synergetic OER/ORR by graphitic carbon nitride: density functional theory. <i>Nanoscale</i> , 2019 , 11, 5064-5071	7.7	50
473	Band gap engineering of early transition-metal-doped anatase TiO ₂ —first principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21446-51	3.6	49
472	Controlled multilayer films of sulfonate-capped gold nanoparticles/thionine used for construction of a reagentless bienzymatic glucose biosensor. <i>Electrochimica Acta</i> , 2007 , 52, 7352-7361	6.7	49
471	Mediating relaxation and polarization of hydrogen-bonds in water by NaCl salting and heating. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 24666-71	3.6	48
470	Anisotropic and temperature effects on mechanical properties of copper nanowires under tensile loading. <i>Computational Materials Science</i> , 2011 , 50, 3032-3037	3.2	48
469	Multilayered construction of glucose oxidase on gold electrodes based on layer-by-layer covalent attachment. <i>Analytica Chimica Acta</i> , 2004 , 523, 209-217	6.6	48
468	Fabrication of Carbon Paste Electrode Containing 1:12 Phosphomolybdic Anions Encapsulated in Modified Mesoporous Molecular Sieve MCM-41 and Its Electrochemistry. <i>Electroanalysis</i> , 2002 , 14, 368-375	3.75	48
467	MoSe ₂ /ZnO/ZnSe hybrids for efficient Cr(VI) reduction under visible light irradiation. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 180-187	11.3	48
466	Electronic structures and transport properties of fluorinated boron nitride nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8032-7	3.6	47
465	A model of bonding and band-forming for oxides and nitrides. <i>Applied Physics Letters</i> , 1998 , 72, 1706-1708	3.4	47
464	Hydrogen-bond memory and water-skin supersolidity resolving the Mpemba paradox. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22995-3002	3.6	46
463	Discriminative generation and hydrogen modulation of the Dirac-Fermi polarons at graphene edges and atomic vacancies. <i>Carbon</i> , 2011 , 49, 3615-3621	10.4	46
462	Size Dependence of the 2p-Level Shift of Nanosolid Silicon. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5113-5115	3.4	46
461	Impact of bond-order loss on surface and nanosolid magnetism. <i>Acta Materialia</i> , 2005 , 53, 3207-3214	8.4	46
460	CuS/RGO hybrid photocatalyst for full solar spectrum photoreduction from UV/Vis to near-infrared light. <i>Journal of Colloid and Interface Science</i> , 2018 , 517, 80-85	9.3	45
459	Constructing NiFe-LDH wrapped Cu ₂ O nanocube heterostructure photocatalysts for enhanced photocatalytic dye degradation and CO ₂ reduction via Z-scheme mechanism. <i>Journal of Alloys and Compounds</i> , 2020 , 831, 154723	5.7	44
458	Synergetic effect of TiO ₂ as co-catalyst for enhanced visible light photocatalytic reduction of Cr(VI) on MoSe ₂ . <i>Applied Catalysis A: General</i> , 2016 , 521, 19-25	5.1	44

457	Microstructure and mechanical properties of nanocomposite amorphous carbon films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2002 , 20, 1390-1394	2.9	44
456	ZnIn ₂ S ₄ flowerlike microspheres embedded with carbon quantum dots for efficient photocatalytic reduction of Cr(VI). <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1901-1909	11.3	44
455	Atomistic Origin and Pressure Dependence of Band Gap Variation in Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9516-9519	3.8	43
454	Size- and composition-induced band-gap change of nanostructured compound of IIIV semiconductors. <i>Chemical Physics Letters</i> , 2008 , 463, 383-386	2.5	43
453	Size modulation electronic and optical properties of phosphorene nanoribbons: DFT-BOLS approximation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 5304-5309	3.6	42
452	Hydrogen bond asymmetric local potentials in compressed ice. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 13639-45	3.4	42
451	Impact of bond order loss on surface and nanosolid mechanics. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 415-23	3.4	42
450	Dielectric transition of nanostructured diamond films. <i>Applied Physics Letters</i> , 2001 , 78, 1826-1828	3.4	42
449	Dielectric suppression and its effect on photoabsorption of nanometric semiconductors. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 2359-2362	3	42
448	Ultrastiff carbides uncovered in first principles. <i>Applied Physics Letters</i> , 2007 , 91, 061905	3.4	41
447	Surface bond contraction and its effect on the nanometric sized lead zirconate titanate. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, L127-L132	1.8	41
446	Correlation between the band gap, elastic modulus, Raman shift and melting point of CdS, ZnS, and CdSe semiconductors and their size dependency. <i>Nanoscale</i> , 2012 , 4, 1304-7	7.7	40
445	Construction of glucose biosensor based on sorption of glucose oxidase onto multilayers of polyelectrolyte/nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 736-41	4.4	40
444	Dielectric relaxation and transition of porous silicon. <i>Journal of Applied Physics</i> , 2003 , 94, 2695-2700	2.5	40
443	Preferential oxidation of diamond {111}. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 2196-2199	3	40
442	Compression icing of room-temperature NaX solutions (X = F, Cl, Br, I). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14046-54	3.6	40
441	Amperometric glucose biosensor based on layer-by-layer covalent attachment of AMWNTs and IO(4)(-)-oxidized GOx. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 22-8	11.8	39
440	Temperature dependence of the elastic and vibronic behavior of Si, Ge, and diamond crystals. <i>Journal of Applied Physics</i> , 2007 , 102, 083524	2.5	39

439	Multilayered construction of glucose oxidase and poly(allylamine)ferrocene on gold electrodes by means of layer-by-layer covalent attachment. <i>Sensors and Actuators B: Chemical</i> , 2004 , 101, 387-393	8.5	39
438	Characterization and tribological evaluation of MW-PACVD diamond coatings deposited on pure titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 282, 38-48	5.3	39
437	Surface and interface characterization of diamond coatings deposited on pure titanium. <i>Surface and Coatings Technology</i> , 1999 , 115, 256-265	4.4	39
436	Adjustable photocatalytic ability of monolayer g-C ₃ N ₄ utilizing single-metal atom: Density functional theory. <i>Applied Surface Science</i> , 2018 , 457, 735-744	6.7	39
435	Pump-power tunable white upconversion emission in lanthanide-doped hexagonal NaYF ₄ nanorods. <i>Optical Materials</i> , 2011 , 33, 882-887	3.3	38
434	Breaking limit of atomic distance in an impurity-free monatomic chain. <i>Physical Review B</i> , 2004 , 69,	3.3	38
433	Upper limit of blue shift in the photoluminescence of CdSe and CdS nanosolids. <i>Acta Materialia</i> , 2002 , 50, 4687-4693	8.4	38
432	Graphene nanoribbon band-gap expansion: broken-bond-induced edge strain and quantum entrapment. <i>Nanoscale</i> , 2010 , 2, 2160-3	7.7	37
431	A MODEL OF BONDING BETWEEN OXYGEN AND METAL SURFACES. <i>Journal of Physics and Chemistry of Solids</i> , 1997 , 58, 903-912	3.9	37
430	Significant Enhancements in the Fluorescence and Phosphorescence of ZnO Quantum Dots/SiO ₂ Nanocomposites by Calcination. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17397-17401	3.8	37
429	Length, Strength, Extensibility, and Thermal Stability of a Au-Au Bond in the Gold Monatomic Chain. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 2162-2167	3.4	37
428	Photoluminescence of Si Nanosolids near the Lower End of the Size Limit. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 11725-11727	3.4	37
427	Deposition of diamond coating on pure titanium using micro-wave plasma assisted chemical vapor deposition. <i>Journal of Materials Science</i> , 1999 , 34, 2269-2283	4.3	37
426	Microwave-assisted synthesis of ZnO/3Al ₂ O ₃ :Ce ³⁺ composites with enhanced visible light photocatalysis. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16293		36
425	Field emission enhancement of amorphous carbon films by nitrogen-implantation. <i>Carbon</i> , 2004 , 42, 2309-2314	10.4	36
424	Stabilization of the Dual-Aromatic cyclo-N Anion by Acidic Entrapment. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2378-2385	6.4	35
423	Light converting phosphor-based photocatalytic composites. <i>Catalysis Science and Technology</i> , 2015 , 5, 4727-4740	5.5	35
422	Raman spectroscopy determination of the Debye temperature and atomic cohesive energy of CdS, CdSe, Bi ₂ Se ₃ , and Sb ₂ Te ₃ nanostructures. <i>Journal of Applied Physics</i> , 2012 , 112, 083508	2.5	35

421	Exposure-resolved VLEED from the O-Cu(001): bonding dynamics. <i>Vacuum</i> , 1997 , 48, 535-541	3.7	35
420	Coordination imperfection enhanced electron-phonon interaction. <i>Journal of Applied Physics</i> , 2004 , 95, 3819-3821	2.5	35
419	Local structure relaxation, quantum trap depression, and valence charge polarization induced by the shorter-and-stronger bonds between under-coordinated atoms in gold nanostructures. <i>Nanoscale</i> , 2010 , 2, 412-7	7.7	34
418	Controlling the Band Gap of ZnO by Programmable Annealing. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20487-20490	3.8	34
417	Dielectric suppression of nanosolid silicon. <i>Nanotechnology</i> , 2004 , 15, 1802-1806	3.4	34
416	Size effect on the magnetism of nanocrystalline Ni films at ambient temperature. <i>Solid State Communications</i> , 2004 , 130, 603-606	1.6	34
415	Modulating the work function of carbon by N or O addition and nanotip fabrication. <i>Solid State Communications</i> , 2003 , 128, 381-384	1.6	34
414	The lattice contraction of nanometre-sized Sn and Bi particles produced by an electrohydrodynamic technique. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 4801-4803	1.8	34
413	Interface quantum trap depression and charge polarization in the CuPd and AgPd bimetallic alloy catalysts. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 3131-5	3.6	33
412	Adatoms-Induced Local Bond Contraction, Quantum Trap Depression, and Charge Polarization at Pt and Rh Surfaces. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21889-21894	3.8	33
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