

# Chang Q Sun

## List of Publications by Year in descending order

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573  
papers

18,499  
citations

10956

71  
h-index

23472

111  
g-index

612  
all docs

612  
docs citations

612  
times ranked

16483  
citing authors

#	ARTICLE	IF	CITATIONS
1	Size dependence of nanostructures: Impact of bond order deficiency. <i>Progress in Solid State Chemistry</i> , 2007, 35, 1-159.	3.9	774
2	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.	6.6	391
3	Microwave-assisted synthesis of Cd/reduced graphene oxide composites for photocatalytic reduction of Cr(vi). <i>Chemical Communications</i> , 2011, 47, 11984.	2.2	307
4	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.	2.4	301
5	Thermo-mechanical behavior of low-dimensional systems: The local bond average approach. <i>Progress in Materials Science</i> , 2009, 54, 179-307.	16.0	252
6	Well-Aligned Cone-Shaped Nanostructure of Polypyrrole/RuO <sub>2</sub> and Its Electrochemical Supercapacitor. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14843-14847.	1.5	231
7	Phosphorus-doped 3D carbon nanofiber aerogels derived from bacterial-cellulose for highly-efficient capacitive deionization. <i>Carbon</i> , 2018, 130, 377-383.	5.4	224
8	Efficient charge separation between UiO-66 and ZnIn <sub>2</sub> S <sub>4</sub> flowerlike 3D microspheres for photoelectronchemical properties. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 234-241.	10.8	211
9	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.	1.2	208
10	Microwave-assisted synthesis of ZnO/graphene composite for photocatalytic reduction of Cr(vi). <i>Catalysis Science and Technology</i> , 2011, 1, 1189.	2.1	204
11	Oxidation electronics: bond-band-barrier correlation and its applications. <i>Progress in Materials Science</i> , 2003, 48, 521-685.	16.0	200
12	Pt/Pb nanowire array electrode for enzyme-free glucose detection. <i>Biosensors and Bioelectronics</i> , 2008, 24, 579-585.	5.3	199
13	Glucose oxidase/colloidal gold nanoparticles immobilized in Nafion film on glassy carbon electrode: Direct electron transfer and electrocatalysis. <i>Bioelectrochemistry</i> , 2006, 69, 158-163.	2.4	191
14	Tailoring Zinc Oxide Nanowires for High Performance Amperometric Glucose Sensor. <i>Electroanalysis</i> , 2007, 19, 1008-1014.	1.5	190
15	Enzyme-free glucose sensor based on a three-dimensional gold film electrode. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 471-476.	4.0	184
16	Edge Hydrogenation-Induced Spin-Filtering and Rectifying Behaviors in the Graphene Nanoribbon Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25072-25076.	1.5	180
17	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.	4.0	168
18	Microwave-assisted synthesis of TiO <sub>2</sub> -reduced graphene oxide composites for the photocatalytic reduction of Cr(vi). <i>RSC Advances</i> , 2011, 1, 1245.	1.7	160

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19	Electrochemical thin film deposition of polypyrrole on different substrates. <i>Surface and Coatings Technology</i> , 2005, 198, 474-477.	2.2	159
20	Carbon nanotube@ZnO nanocomposite electrodes for supercapacitors. <i>Solid State Ionics</i> , 2009, 180, 1525-1528.	1.3	142
21	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.	1.5	142
22	Highly efficient photocatalytic degradation of different hazardous contaminants by $\text{CaIn}_2\text{S}_4\text{-Ti}_3\text{C}_2\text{Tx}$ Schottky heterojunction: An experimental and mechanism study. <i>Chemical Engineering Journal</i> , 2021, 421, 127838.	6.6	138
23	Hydrogen-bond relaxation dynamics: Resolving mysteries of water ice. <i>Coordination Chemistry Reviews</i> , 2015, 285, 109-165.	9.5	136
24	Template-Free Electrochemical Synthesis of Superhydrophilic Polypyrrole Nanofiber Network. <i>Macromolecules</i> , 2008, 41, 7053-7057.	2.2	135
25	$\text{Fe}_2\text{O}_3$ -reduced graphene oxide composites synthesized via microwave-assisted method for sodium ion batteries. <i>Electrochimica Acta</i> , 2015, 166, 12-16.	2.6	135
26	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.	4.0	130
27	Corrosion resistance of $\text{CrAlN}$ and $\text{TiAlN}$ coatings deposited by lateral rotating cathode arc. <i>Thin Solid Films</i> , 2008, 516, 5716-5720.	0.8	130
28	Dominance of broken bonds and nonbonding electrons at the nanoscale. <i>Nanoscale</i> , 2010, 2, 1930.	2.8	126
29	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.	0.7	125
30	Surface and nanosolid core-level shift: Impact of atomic coordination-number imperfection. <i>Physical Review B</i> , 2004, 69, .	1.1	123
31	Size dependence of $\text{Zn } 2p \ 3d^2$ binding energy in nanocrystalline ZnO. <i>Applied Physics Letters</i> , 2006, 88, 173118.	1.5	122
32	Kinetics and thermodynamics study for electrosorption of NaCl onto carbon nanotubes and carbon nanofibers electrodes. <i>Chemical Physics Letters</i> , 2010, 485, 161-166.	1.2	121
33	Coordination-Resolved Electron Spectrometrics. <i>Chemical Reviews</i> , 2015, 115, 6746-6810.	23.0	121
34	Growth, structural, and magnetic properties of iron nitride thin films deposited by dc magnetron sputtering. <i>Applied Surface Science</i> , 2003, 220, 30-39.	3.1	120
35	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.	2.3	120
36	Design of $\text{Pt/t-ZrO}_2/\text{g-C}_3\text{N}_4$ efficient photocatalyst for the hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 305-312.	10.8	118

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37	Thickness effect on the band gap and optical properties of germanium thin films. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	117
38	Density and Phonon-Stiffness Anomalies of Water and Ice in the Full Temperature Range. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3238-3244.	2.1	116
39	Density, Elasticity, and Stability Anomalies of Water Molecules with Fewer than Four Neighbors. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2565-2570.	2.1	115
40	Grain-size effect on ferroelectric $\text{Pb}(\text{Zr}_{1-x}\text{Ti}_x)\text{O}_3$ solid solutions induced by surface bond contraction. <i>Physical Review B</i> , 2001, 63, .	1.1	112
41	Carbon nanotube/zinc oxide electrode and gel polymer electrolyte for electrochemical supercapacitors. <i>Journal of Alloys and Compounds</i> , 2009, 480, L17-L19.	2.8	112
42	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.	1.2	109
43	Atomistic origin of lattice strain on stiffness of nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1543.	1.3	109
44	Nanophotocatalysts via microwave-assisted solution-phase synthesis for efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8299.	5.2	107
45	Electrochemical Detection of Nitric Oxide on a SWCNT/RTIL Composite Gel Microelectrode. <i>Electroanalysis</i> , 2006, 18, 713-718.	1.5	100
46	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.	5.0	100
47	Thermally tuning of the photonic band gap of $\text{SiO}_2$ colloid-crystal infilled with ferroelectric $\text{BaTiO}_3$ . <i>Applied Physics Letters</i> , 2001, 78, 661-663.	1.5	99
48	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.	1.1	97
49	Multilayered construction of glucose oxidase and silica nanoparticles on Au electrodes based on layer-by-layer covalent attachment. <i>Biomaterials</i> , 2006, 27, 4042-4049.	5.7	92
50	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, 145-150.	5.0	92
51	$\text{Cu}_2\text{In}_2\text{ZnS}_5/\text{Gd}_2\text{O}_3:\text{Tb}$ for full solar spectrum photoreduction of $\text{Cr}(\text{VI})$ and $\text{CO}_2$ from UV/vis to near-infrared light. <i>Applied Catalysis B: Environmental</i> , 2019, 249, 82-90.	10.8	91
52	Unexpected monoatomic catalytic-host synergetic OER/ORR by graphitic carbon nitride: density functional theory. <i>Nanoscale</i> , 2019, 11, 5064-5071.	2.8	90
53	Electrosynthesis and characterization of polypyrrole/Au nanocomposite. <i>Electrochimica Acta</i> , 2007, 52, 2845-2849.	2.6	88
54	$\text{MoSe}_2/\text{ZnO}/\text{ZnSe}$ hybrids for efficient $\text{Cr}(\text{VI})$ reduction under visible light irradiation. <i>Chinese Journal of Catalysis</i> , 2020, 41, 180-187.	6.9	86

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55	Bond contraction and lone pair interaction at nitride surfaces. <i>Journal of Applied Physics</i> , 2001, 90, 2615-2617.	1.1	85
56	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.	1.5	84
57	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, .	1.1	83
58	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.	1.3	82
59	Synthesis and Electrical Transport of Novel Channel-Structured $\text{AgVO}_3$ . <i>Small</i> , 2007, 3, 1174-1177.	5.2	82
60	The hidden force opposing ice compression. <i>Chemical Science</i> , 2012, 3, 1455.	3.7	80
61	Elucidating Si-Si Dimmer Vibration from the Size-Dependent Raman Shift of Nanosolid Si. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3404-3406.	1.2	79
62	Synergistic conversion and removal of total Cr from aqueous solution by photocatalysis and capacitive deionization. <i>Chemical Engineering Journal</i> , 2018, 337, 398-404.	6.6	79
63	Coordination Imperfection Suppressed Phase Stability of Ferromagnetic, Ferroelectric, and Superconductive Nanosolids. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1080-1084.	1.2	78
64	Electronic process of nitriding: Mechanism and applications. <i>Progress in Solid State Chemistry</i> , 2006, 34, 1-20.	3.9	77
65	ZnO Meso-Mechano-Thermo Physical Chemistry. <i>Chemical Reviews</i> , 2012, 112, 2833-2852.	23.0	77
66	Size, separation, structural order and mass density of molecules packing in water and ice. <i>Scientific Reports</i> , 2013, 3, 3005.	1.6	76
67	Impedance labelless detection-based polypyrrole protein biosensor. <i>Frontiers in Bioscience - Landmark</i> , 2005, 10, 2518.	3.0	75
68	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.	2.0	75
69	One-step synthesis of CdS-TiO <sub>2</sub> 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.	2.1	75
70	Refractive indices of textured indium tin oxide and zinc oxide thin films. <i>Thin Solid Films</i> , 2006, 510, 95-101.	0.8	74
71	Underneath the fascinations of carbon nanotubes and graphene nanoribbons. <i>Energy and Environmental Science</i> , 2011, 4, 627.	15.6	74
72	Relaxation of the Chemical Bond. <i>Springer Series in Chemical Physics</i> , 2014, , .	0.2	73

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73	Constructing NiFe-LDH wrapped Cu <sub>2</sub> O nanocube heterostructure photocatalysts for enhanced photocatalytic dye degradation and CO <sub>2</sub> reduction via Z-scheme mechanism. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154723.	2.8	73
74	Size modulation electronic and optical properties of phosphorene nanoribbons: DFT-BOLS approximation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5304-5309.	1.3	72
75	Nanometric-layered CrN/TiN thin films: mechanical strength and thermal stability. <i>Thin Solid Films</i> , 2003, 424, 99-102.	0.8	70
76	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, 502-510.	2.8	69
77	A first principles study on the full-Heusler compound Cr <sub>2</sub> MnAl. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	68
78	Impedance labelless detection-based polypyrrole DNA biosensor. <i>Frontiers in Bioscience - Landmark</i> , 2005, 10, 180.	3.0	67
79	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.	1.5	67
80	Size-induced undercooling and overheating in phase transitions in bare and embedded clusters. <i>Physical Review B</i> , 2006, 73, .	1.1	66
81	Nanoporous Structures: Smaller is Stronger. <i>Small</i> , 2008, 4, 1359-1362.	5.2	65
82	Hydrogen-bond memory and water-skin supersolidity resolving the Mpemba paradox. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22995-23002.	1.3	65
83	Hexagonal 2H-MoSe <sub>2</sub> broad spectrum active photocatalyst for Cr(VI) reduction. <i>Scientific Reports</i> , 2016, 6, 35304.	1.6	65
84	Microstructure, magnetic, and optical properties of sputtered Mn-doped ZnO films with high-temperature ferromagnetism. <i>Journal of Applied Physics</i> , 2007, 101, 023904.	1.1	64
85	Atomistic origin, temperature dependence, and responsibilities of surface energetics: An extended broken-bond rule. <i>Physical Review B</i> , 2007, 75, .	1.1	64
86	Visible light photocatalytic degradation of methylene blue by SnO <sub>2</sub> quantum dots prepared via microwave-assisted method. <i>Catalysis Science and Technology</i> , 2013, 3, 1805.	2.1	63
87	Water's phase diagram: From the notion of thermodynamics to hydrogen-bond cooperativity. <i>Progress in Solid State Chemistry</i> , 2015, 43, 71-81.	3.9	63
88	Adjustable photocatalytic ability of monolayer g-C <sub>3</sub> N <sub>4</sub> utilizing single-metal atom: Density functional theory. <i>Applied Surface Science</i> , 2018, 457, 735-744.	3.1	63
89	Site-Selective Lateral Multilayer Assembly of Bionzyme with Polyelectrolyte on ITO Electrode Based on Electric Field-Induced Directly Layer-by-Layer Deposition. <i>Biomacromolecules</i> , 2003, 4, 1161-1167.	2.6	62
90	Controllable synthesis and luminescent properties of novel erythrocyte-like CaMoO <sub>4</sub> hierarchical nanostructures via a simple surfactant-free hydrothermal route. <i>Dalton Transactions</i> , 2010, 39, 2226-2231.	1.6	62

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91	A common supersolid skin covering both water and ice. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22987-22994.	1.3	61
92	Interfacial structure, residual stress and adhesion of diamond coatings deposited on titanium. <i>Thin Solid Films</i> , 2003, 424, 107-114.	0.8	60
93	ZnIn <sub>2</sub> S <sub>4</sub> flowerlike microspheres embedded with carbon quantum dots for efficient photocatalytic reduction of Cr(VI). <i>Chinese Journal of Catalysis</i> , 2018, 39, 1901-1909.	6.9	60
94	Size-induced elastic stiffening of ZnO nanostructures: Skin-depth energy pinning. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	59
95	Band gap engineering of early transition-metal-doped anatase TiO <sub>2</sub> : first principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21446-21451.	1.3	58
96	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.	5.0	58
97	Size-induced acoustic hardening and optic softening of phonons in InP, CeO <sub>2</sub> , SnO <sub>2</sub> , CdS, Ag, and Si nanostructures. <i>Physical Review B</i> , 2005, 72, .	1.1	57
98	Mediating relaxation and polarization of hydrogen-bonds in water by NaCl salting and heating. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24666-24671.	1.3	56
99	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.	1.5	55
100	Dominance of Broken Bonds and Unpaired Nonbonding ĩ€-Electrons in the Band Gap Expansion and Edge States Generation in Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18927-18934.	1.5	55
101	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.	2.8	54
102	A model of bonding and band-forming for oxides and nitrides. <i>Applied Physics Letters</i> , 1998, 72, 1706-1708.	1.5	53
103	Anisotropic and temperature effects on mechanical properties of copper nanowires under tensile loading. <i>Computational Materials Science</i> , 2011, 50, 3032-3037.	1.4	53
104	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.	2.6	52
105	Surface bond contraction and its effect on the nanometric sized lead zirconate titanate. <i>Journal of Physics Condensed Matter</i> , 2000, 12, L127-L132.	0.7	51
106	Impact of bond-order loss on surface and nanosolid magnetism. <i>Acta Materialia</i> , 2005, 53, 3207-3214.	3.8	51
107	Electronic structures and transport properties of fluorinated boron nitride nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8032.	1.3	51
108	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.	0.9	50

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109	Compression icing of room-temperature NaX solutions (X = F, Cl, Br, I). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14046-14054.	1.3	50
110	Synergetic effect of TiO <sub>2</sub> as co-catalyst for enhanced visible light photocatalytic reduction of Cr(VI) on MoSe <sub>2</sub> . <i>Applied Catalysis A: General</i> , 2016, 521, 19-25.	2.2	50
111	Size Dependence of the 2p-Level Shift of Nanosolid Silicon. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5113-5115.	1.2	49
112	Dielectric relaxation and transition of porous silicon. <i>Journal of Applied Physics</i> , 2003, 94, 2695-2700.	1.1	48
113	Multilayered construction of glucose oxidase on gold electrodes based on layer-by-layer covalent attachment. <i>Analytica Chimica Acta</i> , 2004, 523, 209-217.	2.6	48
114	Size- and composition-induced band-gap change of nanostructured compound of II-VI semiconductors. <i>Chemical Physics Letters</i> , 2008, 463, 383-386.	1.2	48
115	Hydrogen Bond Asymmetric Local Potentials in Compressed Ice. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13639-13645.	1.2	48
116	Stabilization of the Dual-Aromatic cyclopentadienyl Anion by Acidic Entrapment. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2378-2385.	2.1	48
117	Dielectric suppression and its effect on photoabsorption of nanometric semiconductors. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 2359-2362.	1.3	47
118	Discriminative generation and hydrogen modulation of the Dirac-Fermi polarons at graphene edges and atomic vacancies. <i>Carbon</i> , 2011, 49, 3615-3621.	5.4	47
119	CaIn <sub>2</sub> S <sub>4</sub> decorated WS <sub>2</sub> hybrid for efficient Cr(VI) reduction. <i>Applied Surface Science</i> , 2019, 484, 300-306.	3.1	47
120	Preferential oxidation of diamond {111}. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 2196-2199.	1.3	46
121	Dielectric transition of nanostructured diamond films. <i>Applied Physics Letters</i> , 2001, 78, 1826-1828.	1.5	46
122	Atomistic Origin and Pressure Dependence of Band Gap Variation in Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9516-9519.	1.5	46
123	Impact of Bond Order Loss on Surface and Nanosolid Mechanics. <i>Journal of Physical Chemistry B</i> , 2005, 109, 415-423.	1.2	45
124	Temperature dependence of the elastic and vibronic behavior of Si, Ge, and diamond crystals. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	45
125	Ultrastiff carbides uncovered in first principles. <i>Applied Physics Letters</i> , 2007, 91, 061905.	1.5	45
126	Interfacial adhesion energy of lithium-ion battery electrodes. <i>Extreme Mechanics Letters</i> , 2016, 9, 226-236.	2.0	45



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127	Two Dimensional Antiferromagnetic Chern Insulator: NiRuCl <sub>6</sub> . Nano Letters, 2016, 16, 6325-6330.	4.5	45
128	Surface and interface characterization of diamond coatings deposited on pure titanium. Surface and Coatings Technology, 1999, 115, 256-265.	2.2	43
129	Photoluminescence of Si Nanosolids near the Lower End of the Size Limit. Journal of Physical Chemistry B, 2002, 106, 11725-11727.	1.2	43
130	Upper limit of blue shift in the photoluminescence of CdSe and CdS nanosolids. Acta Materialia, 2002, 50, 4687-4693.	3.8	43
131	Amperometric glucose biosensor based on layer-by-layer covalent attachment of AMWNTs and IO <sub>4</sub> <sup>-</sup> -oxidized GOx. Biosensors and Bioelectronics, 2008, 24, 22-28.	5.3	43
132	A MODEL OF BONDING BETWEEN OXYGEN AND METAL SURFACES. Journal of Physics and Chemistry of Solids, 1997, 58, 903-912.	1.9	42
133	Characterization and tribological evaluation of MW-PACVD diamond coatings deposited on pure titanium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 282, 38-48.	2.6	42
134	Construction of glucose biosensor based on sorption of glucose oxidase onto multilayers of polyelectrolyte/nanoparticles. Analytical and Bioanalytical Chemistry, 2006, 384, 736-741.	1.9	42
135	Raman spectroscopy determination of the Debye temperature and atomic cohesive energy of CdS, CdSe, Bi <sub>2</sub> Se <sub>3</sub> , and Sb <sub>2</sub> Te <sub>3</sub> nanostructures. Journal of Applied Physics, 2012, 112, .	1.1	42
136	Multilayered construction of glucose oxidase and poly(allylamine)ferrocene on gold electrodes by means of layer-by-layer covalent attachment. Sensors and Actuators B: Chemical, 2004, 101, 387-393.	4.0	41
137	Correlation between the band gap, elastic modulus, Raman shift and melting point of CdS, ZnS, and CdSe semiconductors and their size dependency. Nanoscale, 2012, 4, 1304.	2.8	41
138	Hydrogen bond network relaxation resolved by alcohol hydration (methanol, ethanol, and glycerol). Journal of Raman Spectroscopy, 2017, 48, 393-398.	1.2	41
139	Breaking limit of atomic distance in an impurity-free monatomic chain. Physical Review B, 2004, 69, .	1.1	40
140	Dielectric suppression of nanosolid silicon. Nanotechnology, 2004, 15, 1802-1806.	1.3	40
141	Significant Enhancements in the Fluorescence and Phosphorescence of ZnO Quantum Dots/SiO <sub>2</sub> Nanocomposites by Calcination. Journal of Physical Chemistry C, 2008, 112, 17397-17401.	1.5	40
142	Controlling the Band Gap of ZnO by Programmable Annealing. Journal of Physical Chemistry C, 2011, 115, 20487-20490.	1.5	40
143	Exposure-resolved VLEED from the O-Cu(001): bonding dynamics. Vacuum, 1997, 48, 535-541.	1.6	39
144	Title is missing!. Journal of Materials Science, 1999, 34, 2269-2283.	1.7	39

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145	Pump-power tunable white upconversion emission in lanthanide-doped hexagonal NaYF <sub>4</sub> nanorods. <i>Optical Materials</i> , 2011, 33, 882-887.	1.7	39
146	Microwave-assisted synthesis of ZnO@Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sup>3+</sup> composites with enhanced visible light photocatalysis. <i>Journal of Materials Chemistry</i> , 2012, 22, 16293.	6.7	39
147	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.	0.7	38
148	Self-assembled organic-inorganic composite superlattice thin films incorporating photo- and electro-chemically active phosphomolybdate anion. <i>Journal of Materials Chemistry</i> , 2002, 12, 1453-1458.	6.7	38
149	Modulating the work function of carbon by N or O addition and nanotip fabrication. <i>Solid State Communications</i> , 2003, 128, 381-384.	0.9	38
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