

Chang Q Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

564
papers

15,951
citations

64
h-index

102
g-index

609
ext. papers

17,228
ext. citations

4.2
avg, IF

6.95
L-index

#	Paper	IF	Citations
564	Conferring all-nitrogen aromatics extra stability by acidic trapping. <i>Journal of Molecular Liquids</i> , 2022 , 355, 118939	6	
563	O:H N bond cooperativity in the energetic TATB under mechanical and thermal perturbation. <i>Journal of Molecular Liquids</i> , 2022 , 358, 119169	6	0
562	Discriminative ionic polarizability of alkali halide solutions: Hydration cells, bond distortion, surface stress, and viscosity. <i>Journal of Molecular Liquids</i> , 2021 , 118062	6	0
561	Energy absorbancy and freezing-temperature tunability of NaCl solutions during ice formation. <i>Journal of Molecular Liquids</i> , 2021 , 344, 117928	6	0
560	Applying machine learning to balance performance and stability of high energy density materials. <i>IScience</i> , 2021 , 24, 102240	6.1	7
559	Perspective: Bonding and electronic origin of Au atomic-undercoordination-derivacy and nanoscale-size-dependency. <i>Vacuum</i> , 2021 , 186, 110061	3.7	1
558	Designing of Highly Efficient Oxygen Evolution Reaction Electrocatalysts Utilizing A Correlation Factor: Theory and Experiment. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30533-30541	9.5	1
557	Acidic Stabilization of the Dual-Aromatic Heterocyclic Anions. <i>Catalysts</i> , 2021 , 11, 766	4	1
556	The common and intrinsic skin electric-double-layer (EDL) and its bonding characteristics of nanostructures. <i>Applied Surface Science</i> , 2021 , 539, 148208	6.7	2
555	A short-range disordered defect in the double layer ice. <i>Journal of Molecular Liquids</i> , 2021 , 336, 116356	6	
554	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
553	C-H oxidation enhancement on a gold nanoisland by atomic-undercoordination induced polarization. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 14458-14464	3.6	2
552	Water electrification: Principles and applications. <i>Advances in Colloid and Interface Science</i> , 2020 , 282, 102188	14.3	11
551	How Stable and Powerful Can Metal cyclo-Pentazolate Salts Be? An Answer through Theoretical Crystal Design. <i>Crystal Growth and Design</i> , 2020 , 20, 4794-4801	3.5	3
550	What makes an explosion happen?. <i>Journal of Molecular Liquids</i> , 2020 , 306, 112916	6	3
549	Strategies for Achieving Balance between Detonation Performance and Crystal Stability of High-Energy-Density Materials. <i>IScience</i> , 2020 , 23, 100944	6.1	15
548	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

547 Atomic Chains, Clusters, and Nanocrystals **2020**, 101-142

546 Hybridized Bonding **2020**, 181-204

545 Adatoms, Defects, and Kink Edges **2020**, 81-99

544 Methodology: Parameterization **2020**, 299-313

543 VLEED Capability and Sensitivity **2020**, 315-329

542 Water and Aqueous Solutions **2020**, 469-495

541 Solid and Liquid Skins **2020**, 59-79

540 Hetero- and Under-Coordination Coupling **2020**, 205-214

539 Brillouin Zones, Effective Mass, Muffin-tin Potential, and Work Function **2020**, 331-345

538 Hetero-Coordinated Interfaces **2020**, 163-179

537 Theory: Bond-Electron-Energy Correlation **2020**, 25-44

536 Principles: Bond-Band-Barrier Correlation **2020**, 263-297

535 Four-Stage Cu₃O₂ Bonding Dynamics **2020**, 347-359

534 Carbon Allotropes **2020**, 143-162

533 Sized Crystals **2020**, 447-468

532 Probing Methods: STM/S, PES, APECS, XAS, ZPS **2020**, 45-57

531 Theory: Multifield Oscillation Dynamics **2020**, 393-413

530 Wonders of Multifield Lattice Oscillation **2020**, 369-392

529	Layered Structures 2020 , 415-445		
528	Liquid Phase 2020 , 215-242		1
527	Rules essential for water molecular undercoordination. <i>Chinese Physics B</i> , 2020 , 29, 088203	1.2	4
526	The BOLS-NEP theory reconciling the attributes of undercoordinated adatoms, defects, surfaces and nanostructures. <i>Nano Materials Science</i> , 2020 , 2, 333-345	10.2	2
525	Strain engineering of the lattice vibration modes in monolayer black phosphorus. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 213-220	2.3	2
524	Ultra-strong anisotropic photo-responsivity of bilayer tellurene: a quantum transport and time-domain first principle study. <i>Nanophotonics</i> , 2020 , 9, 1931-1940	6.3	13
523	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
522	Anomalous H C bond thermal contraction of the energetic nitromethane. <i>Journal of Molecular Liquids</i> , 2020 , 314, 113817	6	3
521	Water ice compression: Principles and applications. <i>Journal of Molecular Liquids</i> , 2020 , 315, 113750	6	3
520	Efficient bi-directional OER/ORR catalysis of metal-free C ₆ H ₄ NO ₂ /g-C ₃ N ₄ : Density functional theory approaches. <i>Applied Surface Science</i> , 2020 , 531, 147292	6.7	8
519	Structure and Stability of Aromatic Nitrogen Heterocycles Used in the Field of Energetic Materials. <i>Molecules</i> , 2020 , 25,	4.8	6
518	Multifield-resolved phonon spectrometrics: structured crystals and liquids. <i>Progress in Solid State Chemistry</i> , 2019 , 55, 20-66	8	14
517	Phonon abundance-stiffness-lifetime transition from the mode of heavy water to its confinement and hydration. <i>Journal of Molecular Liquids</i> , 2019 , 276, 688-693	6	5
516	Unprecedented O=<=iO compression and H<-H fragilization in Lewis solutions. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2234-2250	3.6	19
515	Discriminative ionic capabilities on hydrogen-bond transition from the mode of ordinary water to (Mg, Ca, Sr)(Cl, Br) ₂ hydration. <i>Journal of Molecular Liquids</i> , 2019 , 279, 485-491	6	5
514	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
513	Electronic structure of two-dimensional In and Bi metal on BN nanosheets.. <i>RSC Advances</i> , 2019 , 9, 9342-9347	3.7	3
512	(H, Li)Cl and LiOH hydration: Surface tension, solution conductivity and viscosity, and exothermic dynamics. <i>Journal of Molecular Liquids</i> , 2019 , 283, 116-122	6	2

511	Hydration of Hofmeister ions. <i>Advances in Colloid and Interface Science</i> , 2019 , 268, 1-24	14.3	7
510	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
509	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
508	CaIn ₂ S ₄ decorated WS ₂ hybrid for efficient Cr(VI) reduction. <i>Applied Surface Science</i> , 2019 , 484, 300-306.7	21.8	29
507	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
506	Electronic Structure and Bond Relaxation at Na/Ta(110) Interfaces and 1D-Chain and 2D-Ring Ta Metal Structures on Na(110). <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800413	1.3	
505	Mechanism and Functionality of Pnictogen Dual Aromaticity in Pentazolate Crystals. <i>ChemPhysChem</i> , 2019 , 20, 2525-2530	3.2	10
504	Multifield Coupling. <i>Springer Series in Chemical Physics</i> , 2019 , 235-284	0.3	
503	Hofmeister Salt Solutions: Screened Polarization. <i>Springer Series in Chemical Physics</i> , 2019 , 129-189	0.3	
502	Differential Phonon Spectrometrics (DPS). <i>Springer Series in Chemical Physics</i> , 2019 , 19-35	0.3	
501	Theory: Aqueous Charge Injection by Solvation. <i>Springer Series in Chemical Physics</i> , 2019 , 37-83	0.3	0
500	Lewis Basic and H ₂ O ₂ Solutions: O ₂ =iO Compression. <i>Springer Series in Chemical Physics</i> , 2019 , 103-127	0.3	
499	Organic Molecules: Dipolar Solutes. <i>Springer Series in Chemical Physics</i> , 2019 , 191-233	0.3	
498	Solvation Dynamics. <i>Springer Series in Chemical Physics</i> , 2019 ,	0.3	2
497	Lewis Acidic Solutions: H<-H Fragilization. <i>Springer Series in Chemical Physics</i> , 2019 , 85-102	0.3	
496	Unexpected Solute Occupancy and Anisotropic Polarizability in Lewis Basic Solutions. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 8512-8518	3.4	6
495	Unexpected monoatomic catalytic-host synergetic OER/ORR by graphitic carbon nitride: density functional theory. <i>Nanoscale</i> , 2019 , 11, 5064-5071	7.7	50
494	Palladium-catalyzed [3+2] annulation of allenyl carbinol acetates with C,N-cyclic azomethine imines. <i>Chemical Communications</i> , 2019 , 55, 12841-12844	5.8	11

493	Electronic and magnetic behaviour of 2D metal structures of Y on Li(1 1 0) surface. <i>Applied Surface Science</i> , 2019 , 471, 1005-1010	6.7	4
492	(Li, Na, K)OH hydration bonding thermodynamics: Solution self-heating. <i>Chemical Physics Letters</i> , 2018 , 696, 139-143	2.5	11
491	Antimonene nanoribbon band-gap expansion: Bond contraction and edge quantum entrapment. <i>Materials Chemistry and Physics</i> , 2018 , 211, 414-419	4.4	6
490	DFT study on bimetallic Pt/Cu(1 1 1) as efficient catalyst for H ₂ dissociation. <i>Applied Surface Science</i> , 2018 , 441, 23-28	6.7	6
489	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
488	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
487	Hydrogen bond and surface stress relaxation by aldehydic and formic acidic molecular solvation. <i>Journal of Molecular Liquids</i> , 2018 , 249, 494-500	6	5
486	Hydrogen-bond transition from the vibration mode of ordinary water to the (H, Na)I hydration states: Molecular interactions and solution viscosity. <i>Vibrational Spectroscopy</i> , 2018 , 94, 31-36	2.1	3
485	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
484	(H, Li)Br and LiOH Solvation Bonding Dynamics: Molecular Nonbond Interactions and Solute Extraordinary Capabilities. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 1228-1238	3.4	23
483	Surface tension mediation by Na-based ionic polarization and acidic fragmentation: Inference of hypertension. <i>Journal of Molecular Liquids</i> , 2018 , 259, 1-6	6	2
482	Atomic configuration of hydrogenated and clean tantalum(111) surfaces: Bond relaxation, energy entrapment and electron polarization. <i>Applied Surface Science</i> , 2018 , 427, 1182-1188	6.7	7
481	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
480	The Band-Gap Modulation of Graphyne Nanoribbons by Edge Quantum Entrapment. <i>Nanomaterials</i> , 2018 , 8,	5.4	2
479	Phonon Spectrometric Evaluation of the Solute-Solvent Interface in Solutions of Glycine and Its N-Methylated Derivatives. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 7403-7408	3.4	1
478	Origin of efficient oxygen reduction reaction on Pd monolayer supported on Pd-M (M=Ni, Fe) intermetallic alloy. <i>Electrochimica Acta</i> , 2018 , 282, 680-686	6.7	17
477	Composition- and Temperature-Resolved Raman Shift of Silicon. <i>Applied Spectroscopy</i> , 2018 , 72, 598-603	3.1	2
476	Supersolidity of undercoordinated and hydrating water. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 30104-30119	3.6	13

475	Aqueous charge injection: solvation bonding dynamics, molecular nonbond interactions, and extraordinary solute capabilities. <i>International Reviews in Physical Chemistry</i> , 2018 , 37, 363-558	7	21
474	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
473	Arsenene nanoribbon edge-resolved strong magnetism. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 25716-25721	3.6	7
472	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
471	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
470	Number-of-layer resolved (Mo, W)-(S ₂ , Se ₂) phonon relaxation. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 592-595	2.3	9
469	Synthesis of SiOH-functionalized composite particles with buckled surface by seeded emulsion polymerization. <i>Colloid and Polymer Science</i> , 2017 , 295, 471-478	2.4	4
468	Resolving H(Cl, Br, I) capabilities of transforming solution hydrogen-bond and surface-stress. <i>Chemical Physics Letters</i> , 2017 , 678, 233-240	2.5	25
467	HCl, KCl and KOH solvation resolved solute-solvent interactions and solution surface stress. <i>Applied Surface Science</i> , 2017 , 422, 475-481	6.7	16
466	Energetics competition in centrally four-coordinated water clusters and Raman spectroscopic signature for hydrogen bonding. <i>RSC Advances</i> , 2017 , 7, 11680-11683	3.7	16
465	Catalytic enhancement of gold nanocages induced by undercoordination-charge-polarization. <i>APL Materials</i> , 2017 , 5, 053501	5.7	6
464	Layer effect on catalytic activity of Pd-Cu bimetal for CO oxidation. <i>Applied Catalysis A: General</i> , 2017 , 538, 66-73	5.1	7
463	The anti-frozen attribute of sugar solutions. <i>Journal of Molecular Liquids</i> , 2017 , 247, 337-344	6	4
462	NaX solvation bonding dynamics: hydrogen bond and surface stress transition (X = HSO ₄ , NO ₃ , ClO ₄ , SCN). <i>Journal of Molecular Liquids</i> , 2017 , 248, 432-438	6	8
461	DFT Study on Intermetallic Pd-Cu Alloy with Cover Layer Pd as Efficient Catalyst for Oxygen Reduction Reaction. <i>Materials</i> , 2017 , 11,	3.5	16
460	Fraction and stiffness transition from the HO vibrational mode of ordinary water to the HI, NaI, and NaOH hydration states. <i>Journal of Molecular Liquids</i> , 2017 , 244, 415-421	6	7
459	H ₂ O ₂ and HOI Solvation Dynamics: Solute Capabilities and Solute-Solvent Molecular Interactions. <i>ChemistrySelect</i> , 2017 , 2, 8517-8523	1.8	3
458	Room-temperature NaI/HO compression icing: solute-solute interactions. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 26645-26650	3.6	19

457	Supersolid Skin Mechanics of Water and Ice. <i>Procedia IUTAM</i> , 2017 , 21, 102-110		2
456	Hydrogen bond network relaxation resolved by alcohol hydration (methanol, ethanol, and glycerol). <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 393-398	2.3	24
455	Tantalum surface oxidation: Bond relaxation, energy entrapment, and electron polarization. <i>Applied Surface Science</i> , 2017 , 396, 177-184	6.7	5
454	Number-of-layer, pressure, and temperature resolved bond-phonon-photon cooperative relaxation of layered black phosphorus. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 1304-1309	2.3	8
453	Interfacial adhesion energy of lithium-ion battery electrodes. <i>Extreme Mechanics Letters</i> , 2016 , 9, 226-236	9	29
452	Adjustable electronic performances and redox ability of a g-C ₃ N ₄ monolayer by adsorbing nonmetal solute ions: a first principles study. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14827-14838	13	25
451	Two Dimensional Antiferromagnetic Chern Insulator: NiRuCl. <i>Nano Letters</i> , 2016 , 16, 6325-6330	11.5	32
450	Oxidation of the titanium(0001) surface: diffusion processes of oxygen from DFT. <i>RSC Advances</i> , 2016 , 6, 71311-71318	3.7	15
449	Electronic binding energy relaxation of Sc clusters by monatomic alloying: DFT-BOLS approximation. <i>RSC Advances</i> , 2016 , 6, 8511-8516	3.7	2
448	Hexagonal 2H-MoSe broad spectrum active photocatalyst for Cr(VI) reduction. <i>Scientific Reports</i> , 2016 , 6, 35304	4.9	55
447	Electronic structure and binding energy relaxation of ScZr atomic alloying. <i>Chemical Physics Letters</i> , 2016 , 657, 177-183	2.5	
446	Unprecedented thermal stability of water supersolid skin. <i>Journal of Molecular Liquids</i> , 2016 , 220, 865-869	6.9	14
445	The Attribute of Water. <i>Springer Series in Chemical Physics</i> , 2016 ,	0.3	31
444	Aqueous Solutions: Quantum Specification. <i>Springer Series in Chemical Physics</i> , 2016 , 305-363	0.3	
443	Miscellaneous Issues. <i>Springer Series in Chemical Physics</i> , 2016 , 419-453	0.3	
442	Wonders of Water. <i>Springer Series in Chemical Physics</i> , 2016 , 1-24	0.3	1
441	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
440	Transparent conductivity modulation of ZnO by group-IVA doping. <i>Chemical Physics Letters</i> , 2016 , 649, 78-83	2.5	3

439	Water Supersolid Skin. <i>Springer Series in Chemical Physics</i> , 2016 , 245-279	0.3	
438	Water Structure. <i>Springer Series in Chemical Physics</i> , 2016 , 25-48	0.3	1
437	Microwave-assisted Synthesis of Semiconductor Nanomaterials for Energy Storage. <i>Current Nanoscience</i> , 2016 , 12, 317-323	1.4	2
436	Hydration Shells and Water Skin. <i>Springer Series in Chemical Physics</i> , 2016 , 365-373	0.3	2
435	Superlubricity of Ice. <i>Springer Series in Chemical Physics</i> , 2016 , 203-243	0.3	2
434	Approaching Strategies. <i>Springer Series in Chemical Physics</i> , 2016 , 455-477	0.3	
433	Phase Diagram: Bonding Dynamics. <i>Springer Series in Chemical Physics</i> , 2016 , 81-101	0.3	
432	O:H \cdots O Bond Asymmetrical Potentials. <i>Springer Series in Chemical Physics</i> , 2016 , 103-123	0.3	
431	Mechanical Compression. <i>Springer Series in Chemical Physics</i> , 2016 , 125-146	0.3	0
430	Thermal Excitation. <i>Springer Series in Chemical Physics</i> , 2016 , 147-173	0.3	
429	Aqueous Solution Phase Transition. <i>Springer Series in Chemical Physics</i> , 2016 , 375-391	0.3	
428	Electrofreezing and Water Bridging. <i>Springer Series in Chemical Physics</i> , 2016 , 393-418	0.3	
427	Mpemba Paradox. <i>Springer Series in Chemical Physics</i> , 2016 , 281-304	0.3	
426	Molecular Undercoordination: Supersolidity. <i>Springer Series in Chemical Physics</i> , 2016 , 175-202	0.3	
425	O:H \cdots O Bond Cooperativity. <i>Springer Series in Chemical Physics</i> , 2016 , 49-80	0.3	
424	TiO ₂ Band Restructuring by B and P Dopants. <i>PLoS ONE</i> , 2016 , 11, e0152726	3.7	8
423	Catalytic and Magnetic Behaviors of Excessively Charged Silver, Copper, Platinum, and Rhodium Atomic Clusters. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17527-17536	3.8	2
422	Raman spectroscopy of alkali halide hydration: hydrogen bond relaxation and polarization. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 1351-1359	2.3	25

4 ²¹	Water molecular structure-order in the NaX hydration shells(X=F, Cl, Br, I). <i>Journal of Molecular Liquids</i> , 2016 , 221, 788-797	6	27
4 ²⁰	Skin Bond Electron Relaxation Dynamics of Germanium Manipulated by Interactions with H ₂ , O ₂ , H ₂ O, H ₂ O ₂ , HF, and Au. <i>ChemPhysChem</i> , 2016 , 17, 310-6	3.2	4
4 ¹⁹	Modulation of electronic properties from stacking orders and spin-orbit coupling for 3R-type MoS ₂ . <i>Scientific Reports</i> , 2016 , 6, 24140	4.9	21
4 ¹⁸	Interface bond relaxation on the thermal conductivity of Si/Ge core-shell nanowires. <i>AIP Advances</i> , 2016 , 6, 015313	1.5	4
4 ¹⁷	Nitrogen mediated electronic structure of the Ti(0001) surface. <i>RSC Advances</i> , 2016 , 6, 14651-14657	3.7	6
4 ¹⁶	Electronic binding energy and thermal relaxation of Li and LiNa atomic alloying clusters. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 13280-6	3.6	4
4 ¹⁵	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
4 ¹⁴	Multifield-driven bond-phonon-photon performance of layered (Mo, W)S ₂ , Se ₂ . <i>Chemical Physics Letters</i> , 2016 , 660, 256-260	2.5	2
4 ¹³	Base-hydration-resolved hydrogen-bond networking dynamics: Quantum point compression. <i>Journal of Molecular Liquids</i> , 2016 , 223, 1277-1283	6	22
4 ¹²	Nanobubble Skin Supersolidity. <i>Langmuir</i> , 2016 , 32, 11321-11327	4	31
4 ¹¹	Enhanced quantum size effect in Li and Na clusters via rare gas doping. <i>International Journal of Quantum Chemistry</i> , 2016 , 116, 1829-1835	2.1	
4 ¹⁰	Enhanced visible light photocatalytic activity of ZnO doped with down-conversion NaSrBO ₃ :Tb(3+) phosphors. <i>Dalton Transactions</i> , 2015 , 44, 97-103	4.3	27
4 ⁰⁹	Coordination-resolved electron spectrometrics. <i>Chemical Reviews</i> , 2015 , 115, 6746-810	68.1	103
4 ⁰⁸	Potential Paths for the Hydrogen-Bond Relaxing With (HO) Cluster Size. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16962-16971	3.8	22
4 ⁰⁷	Enhanced photocatalytic activity of Bi ₂ O ₃ /Ag ₂ O hybrid photocatalysts. <i>Applied Surface Science</i> , 2015 , 347, 269-274	6.7	25
4 ⁰⁶	Oxygenation mediating the valence density-of-states and work function of Ti(0001) skin. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9867-72	3.6	10
4 ⁰⁵	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
4 ⁰⁴	Water nanodroplet thermodynamics: quasi-solid phase-boundary dispersivity. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 5265-9	3.4	27

403	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
402	Atomistic bond relaxation, energy entrapment, and electron polarization of the RbN and CsN clusters (N ₇₅₈). <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 30389-97	3.6	2
401	Thermally Driven (Mo, W)-(S ₂ , Se ₂) Phonon and Photon Energy Relaxation Dynamics. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25071-25076	3.8	21
400	Local bond-electron-energy relaxation of Mo atomic clusters and solid skins. <i>RSC Advances</i> , 2015 , 5, 29663-29668	3.7	1
399	Bond relaxation in length and energy of Li atomic clusters. <i>Chemical Physics Letters</i> , 2015 , 638, 210-215	2.5	4
398	Atomistic spectrometrics of local bond-electron-energy pertaining to Na and K clusters. <i>Applied Surface Science</i> , 2015 , 325, 33-38	6.7	5
397	Hydrogen-bond relaxation dynamics: Resolving mysteries of water ice. <i>Coordination Chemistry Reviews</i> , 2015 , 285, 109-165	23.2	114
396	The effect of surface and interface on Neel transition temperature of low-dimensional antiferromagnetic materials. <i>AIP Advances</i> , 2015 , 5, 117228	1.5	2
395	Graphene phonon softening and splitting by directional straining. <i>Applied Physics Letters</i> , 2015 , 107, 203105	3.4	5
394	Ice Regelation: Hydrogen-bond extraordinary recoverability and water quasisolid-phase-boundary dispersivity. <i>Scientific Reports</i> , 2015 , 5, 13655	4.9	20
393	Coordination-Resolved Spectrometrics of Local Bonding and Electronic Dynamics of Au Atomic Clusters, Solid Skins, and Oxidized Foils. <i>ChemPhysChem</i> , 2015 , 16, 2159-64	3.2	7
392	Coordination-resolved bonding and electronic dynamics of Na atomic clusters and solid skins. <i>RSC Advances</i> , 2015 , 5, 35274-35281	3.7	9
391	Light converting phosphor-based photocatalytic composites. <i>Catalysis Science and Technology</i> , 2015 , 5, 4727-4740	5.5	35
390	Coordination-resolved local bond strain and 3p energy entrapment of K atomic clusters and K(1 1 0) skin. <i>Applied Surface Science</i> , 2015 , 349, 665-672	6.7	
389	From ice superlubricity to quantum friction: Electronic repulsivity and phononic elasticity. <i>Friction</i> , 2015 , 3, 294-319	5.6	16
388	Relaxation of the Chemical Bond. <i>Springer Series in Chemical Physics</i> , 2014 ,	0.3	59
387	Nanograins: I. Elasticity and Compressibility. <i>Springer Series in Chemical Physics</i> , 2014 , 535-569	0.3	
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