

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.

615 papers	25,827 citations	78 h-index	131 g-index
650 ext. papers	27,931 ext. citations	5.1 avg, IF	7.44 L-index

#	Paper	IF	Citations
615	SbCl: An Exceptional Superhalogen as the Building Block of a Mixed Valence Supercrystal with Unconventional Ferroelectricity.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1049-1056	6.4	0
614	Superatomic chemistry. <i>Journal of the Indian Chemical Society</i> , 2022 , 99, 100350		0
613	Halogen-Free Electrolytes Based on Modified Boranes for Alkali-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5112-5121	3.8	
612	Interfacial triferroicity in monolayer chromium dihalide. <i>Physical Review B</i> , 2022 , 105,	3.3	2
611	Review of modification strategies in emerging inorganic solid-state electrolytes for lithium, sodium, and potassium batteries. <i>Joule</i> , 2022 , 6, 543-587	27.8	8
610	Argyrodite-type advanced lithium conductors and transport mechanisms beyond peddle-wheel effect.. <i>Nature Communications</i> , 2022 , 13, 2078	17.4	3
609	Designing New Metal Chalcogenide Nanoclusters through Atom-by-Atom Substitution. <i>Small</i> , 2021 , 17, e2002927	11	3
608	Superatom-Based Ferroelectrics 2021 , 257-275		
607	Rational Design of Superatoms Using Electron-Counting Rules 2021 , 15-51		
606	Cluster-based Materials for Energy Harvesting and Storage 2021 , 277-316		
605	Clusters for CO 2 Activation and Conversion 2021 , 349-374		
604	Built-in electric field control of magnetic coupling in van der Waals semiconductors. <i>Physical Review B</i> , 2021 , 103,	3.3	4
603	Role of Size and Composition on the Design of Superalkalis. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 5886-5894	2.8	2
602	Two-dimensional metal-free boron chalcogenides BX (X = Se and Te) as photocatalysts for water splitting under visible light. <i>Nanoscale</i> , 2021 , 13, 3627-3632	7.7	2
601	Imidazole-graphyne: a new 2D carbon nitride with a direct bandgap and strong IR refraction. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10274-10280	3.6	1
600	A family of ionic supersalts with covalent-like directionality and unconventional multiferroicity. <i>Nature Communications</i> , 2021 , 12, 1331	17.4	8
599	Binding of noble gas atoms by superhalogens. <i>Journal of Chemical Physics</i> , 2021 , 155, 014304	3.9	2

598	Antiperovskite KOI for K-Ion Solid State Electrolyte. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 71206-71267	7.1	6
597	Theory-Guided Discovery of Novel Materials. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6499-6513	6.4	6
596	Heavily Tungsten-Doped Sodium Thioantimonate Solid-State Electrolytes with Exceptionally Low Activation Energy for Ionic Diffusion. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26158-26166	16.4	7
595	Hex-C558: A new porous metallic carbon allotrope for lithium-ion battery anode. <i>Carbon</i> , 2021 , 183, 652-659	10.4	3
594	Super-electrophiles of tri- and tetra-anions stabilized by selected terminal groups and their role in binding noble gas atoms. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 21496-21500	3.6	2
593	Realization of the Zn oxidation state. <i>Nanoscale</i> , 2021 , 13, 14041-14048	7.7	1
592	Boron-Functionalized Organic Framework as a High-Performance Metal-Free Catalyst for N Fixation.. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 12142-12149	6.4	0
591	B2H6 splitting on catalytic surfaces and role of BH3 towards hydrogen spillover. <i>Journal of Power Sources</i> , 2020 , 455, 227973	8.9	0
590	A 3D porous honeycomb carbon as Na-ion battery anode material with high capacity, excellent rate performance, and robust stability. <i>Carbon</i> , 2020 , 168, 163-168	10.4	11
589	Robustness of Superatoms and Their Potential as Building Blocks of Materials: Al ₁₃ vs B(CN) ₄ <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6435-6440	3.8	6
588	Electrical Control of Magnetic Phase Transition in a Type-I Multiferroic Double-Metal Trihalide Monolayer. <i>Physical Review Letters</i> , 2020 , 124, 067602	7.4	38
587	Clusters and Nanomaterials for Sustainable Energy. <i>ACS Energy Letters</i> , 2020 , 5, 428-429	20.1	1
586	Record-high stability and compactness of multiply-charged clusters aided by selected terminal groups. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 4880-4883	3.6	6
585	Discovery of twin orbital-order phases in ferromagnetic semiconducting VI monolayer. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 512-517	3.6	18
584	Potential of porous nodal-line semi-metallic carbon for sodium-ion battery anode. <i>Journal of Power Sources</i> , 2020 , 478, 228746	8.9	7
583	Assembling SiBN nanoribbons into a 3D porous structure as a universal anode material for both Li- and Na-ion batteries with high performance. <i>Nanoscale</i> , 2020 , 12, 19367-19374	7.7	8
582	Penta-BCN: A New Ternary Pentagonal Monolayer with Intrinsic Piezoelectricity. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3501-3506	6.4	31
581	Yttrium-Sodium Halides as Promising Solid-State Electrolytes with High Ionic Conductivity and Stability for Na-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3376-3383	6.4	16

580	Rational Design of Porous Nodal-Line Semimetallic Carbon for K-Ion Battery Anode Materials. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6360-6367	6.4	21
579	Boronated holey graphene: a case of 2D ferromagnetic metal. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 21128-21135	3.6	2
578	Ligand stabilization of manganocene dianions - in defiance of the 18-electron rule. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24300-24307	3.6	5
577	Homocoupling and Heterocoupling of Grignard Perfluorobenzene Reagents via Aryne Intermediates: A DFT Study. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 9693-9700	2.8	0
576	Conserved Vibrational Coherence in the Ultrafast Rearrangement of 2-Nitrotoluene Radical Cation. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 1140-1152	2.8	16
575	A high-pressure induced stable phase of Li ₂ MnSiO ₄ as an effective poly-anion cathode material from simulations. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16406-16413	13	5
574	Tuning range-separated DFT functionals for modeling the peak absorption of MEH-PPV polymer in various solvents. <i>Computational and Theoretical Chemistry</i> , 2019 , 1162, 112506	2	3
573	Stable Tetra- and Penta-Anions in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11248-11252	16.4	12
572	N-doped peanut-shaped carbon nanotubes for efficient CO ₂ electrocatalytic reduction. <i>Carbon</i> , 2019 , 152, 241-246	10.4	17
571	Rational Design of Stable Dianions and the Concept of Super-Chalcogens. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 5753-5761	2.8	5
570	Superhalogens as Building Blocks of Super Lewis Acids. <i>ChemPhysChem</i> , 2019 , 20, 1607-1612	3.2	9
569	Mechanistic Insight into Photocatalytic Pathways of MIL-100(Fe)/TiO ₂ Composites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12516-12524	9.5	54
568	Tetragonal C ₂₄ : a topological nodal-surface semimetal with potential as an anode material for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5733-5739	13	40
567	Unique reactivity of B in B[GeY] (Y = H, CH, BO, CN): formation of a Lewis base. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 23301-23304	3.6	3
566	Hydrogenated C ₆₀ as High-Capacity Stable Anode Materials for Li Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6453-6460	6.1	14
565	Lattice Dynamic and Instability in Pentasilicene: A Light Single-Element Ferroelectric Material With High Curie Temperature. <i>Physical Review Applied</i> , 2019 , 11,	4.3	14
564	Stable Tetra- and Penta-Anions in the Gas Phase. <i>Angewandte Chemie</i> , 2019 , 131, 11370-11374	3.6	
563	Boosting the Curie Temperature of Two-Dimensional Semiconducting CrI ₃ Monolayer through van der Waals Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17987-17993	3.8	38

562	Interfacial properties of penta-graphene-metal contacts. <i>Journal of Applied Physics</i> , 2019 , 125, 065308	2.5	6
561	Innentitelbild: Stable Tetra- and Penta-Anions in the Gas Phase (Angew. Chem. 33/2019). <i>Angewandte Chemie</i> , 2019 , 131, 11246	3.6	
560	Sodium Superionic Conductors Based on Clusters. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 963-972	9.2	29
559	Effect of Coulomb Correlation on the Magnetic Properties of Mn Clusters. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 4350-4356	2.8	4
558	Dissociation dynamics of 3- and 4-nitrotoluene radical cations: Coherently driven C-NO bond homolysis. <i>Journal of Chemical Physics</i> , 2018 , 148, 134305	3.9	13
557	A metallic peanut-shaped carbon nanotube and its potential for CO ₂ capture. <i>Carbon</i> , 2018 , 132, 249-256	10.4	7
556	Ultrafast coherent vibrational dynamics in dimethyl methylphosphonate radical cation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4636-4640	3.6	10
555	Effect of hydrogenation on the structure and magnetic properties of an iron oxide cluster. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4546-4553	3.6	8
554	Bipolar Magnetic Materials Based on 2D Ni[TCNE] Metal-Organic Coordination Networks. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700323	6.4	10
553	The rise of two-dimensional van der Waals ferroelectrics. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2018 , 8, e1365	7.9	89
552	Co-mixing hydrogen and methane may double the energy storage capacity. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8916-8922	13	11
551	Simultaneous Detection and Removal of Formaldehyde at Room Temperature: Janus Au@ZnO@ZIF-8 Nanoparticles. <i>Nano-Micro Letters</i> , 2018 , 10, 4	19.5	55
550	Electron affinity of modified benzene. <i>International Journal of Quantum Chemistry</i> , 2018 , 118, e25504	2.1	13
549	Discovery of a high-pressure phase of rutile-like CoO ₂ and its potential as a cathode material. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18449-18457	13	4
548	A new 3D Dirac nodal-line semi-metallic graphene monolith for lithium ion battery anode materials. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13816-13824	13	31
547	Interpenetrating silicene networks: A topological nodal-line semimetal with potential as an anode material for sodium ion batteries. <i>Physical Review Materials</i> , 2018 , 2,	3.2	13
546	Monoclinic C16: sp-sp hybridized nodal-line semimetal protected by PT-symmetry. <i>Carbon</i> , 2018 , 127, 527-532	10.4	28
545	B(SCN) ₄ A New Weakly Coordinating Anion in the Tetracyanoborate Family. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13371-13375	3.8	5

544	Super-alkalis as building blocks of one-dimensional hierarchical electrides. <i>Nanoscale</i> , 2018 , 10, 22963-22969	7.7	10
543	Super Atomic Clusters: Design Rules and Potential for Building Blocks of Materials. <i>Chemical Reviews</i> , 2018 , 118, 5755-5870	68.1	265
542	Collective Superexchange and Exchange Coupling Constants in the Hydrogenated Iron Oxide Particle FeOH. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 5043-5049	2.8	1
541	Body-Centered Tetragonal C : A Novel Topological Node-Line Semimetallic Carbon Composed of Tetrarings. <i>Small</i> , 2017 , 13, 1602894	11	49
540	Two-dimensional topological crystalline quantum spin Hall effect in transition metal intercalated compounds. <i>Physical Review B</i> , 2017 , 95,	3.3	8
539	Rational design of super-alkalis and their role in CO activation. <i>Nanoscale</i> , 2017 , 9, 4891-4897	7.7	47
538	Superhalogen-based lithium superionic conductors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13373-13381	3.1	40
537	Rational Design of Stable Dianions by Functionalizing Polycyclic Aromatic Hydrocarbons. <i>ChemPhysChem</i> , 2017 , 18, 1937-1942	3.2	3
536	Role of ligands in the stability of BX and CBX (n = 5-10; X = H, F, CN) and their potential as building blocks of electrolytes in lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 17937-17943	3.6	17
535	B12(SCN)12—An Ultrastable Weakly Coordinating Dianion. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 7697-7702	3.8	24
534	Quantum anomalous Hall effect in ferromagnetic transition metal halides. <i>Physical Review B</i> , 2017 , 95,	3.3	69
533	A Theoretical and Mass Spectrometry Study of Dimethyl Methylphosphonate: New Isomers and Cation Decay Channels in an Intense Femtosecond Laser Field. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 8414-8424	2.8	14
532	Li-rich antiperovskite superionic conductors based on cluster ions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11046-11051	11.5	76
531	Exceptional Thermoelectric Properties of Layered GeAs2. <i>Chemistry of Materials</i> , 2017 , 29, 9300-9307	9.6	47
530	Colossal Stability of Gas-Phase Trianions: Super-Pnictogens. <i>Angewandte Chemie</i> , 2017 , 129, 13606-13610	10.6	6
529	Colossal Stability of Gas-Phase Trianions: Super-Pnictogens. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13421-13425	16.4	15
528	Valley-Polarized Quantum Anomalous Hall Effect in Ferrimagnetic Honeycomb Lattices. <i>Physical Review Letters</i> , 2017 , 119, 046403	7.4	22
527	Atomic-Level Design of Water-Resistant Hybrid Perovskites for Solar Cells by Using Cluster Ions. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3726-3733	6.4	10

526	Giant Valley Splitting and Valley Polarized Plasmonics in Group V Transition-Metal Dichalcogenide Monolayers. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5764-5770	6.4	17
525	EGraphene: A New Metallic Allotrope of Planar Carbon with Potential Applications as Anode Materials for Lithium-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3234-3241	6.4	109
524	Organo-Zintl-based superatoms: [Ge ₉ (CHO) ₃] and [Ge ₉ (CHO)]. <i>Chemical Physics Letters</i> , 2017 , 686, 195-202	202	5
523	Exfoliating biocompatible ferromagnetic Cr-trihalide monolayers. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8777-84	3.6	198
522	Assembling EConjugated Molecules with Negative Gaussian Curvature for Efficient Carbon-Based Metal-Free Thermoelectric Material. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27829-27833	3.8	4
521	Ferromagnetic and Half-Metallic FeC Monolayer Containing C Dimers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26207-26212	9.5	44
520	Superhalogens as building blocks of two-dimensional organic-inorganic hybrid perovskites for optoelectronics applications. <i>Nanoscale</i> , 2016 , 8, 17836-17842	7.7	32
519	Pressure-induced structural transition in copper pyrazine dinitrate and implications for quantum magnetism. <i>Physical Review B</i> , 2016 , 93,	3.3	5
518	Complex metal borohydrides: multifunctional materials for energy storage and conversion. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 353001	1.8	27
517	Investigation of hydrogen induced fluorescence in C and its potential use in luminescence down shifting applications. <i>Nanoscale</i> , 2016 , 8, 18760-18770	7.7	9
516	Assembling a bi-coordinated Cr complex for ferromagnetic nanorings: insight from first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 17868-74	3.6	
515	Cluster-Inspired Design of High-Capacity Anode for Li-Ion Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 202-208	20.1	19
514	SiTe monolayers: Si-based analogues of phosphorene. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6353-6361	6.1	44
513	Structure and Properties of Egyptian Blue Monolayer Family: XCuSi ₄ O ₁₀ (X = Ca, Sr, and Ba). <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 399-405	6.4	16
512	From Halogen to Superhalogen Behavior of Organic Molecules Created by Functionalizing Benzene. <i>ChemPhysChem</i> , 2016 , 17, 184-9	3.2	10
511	Organo-Zintl Clusters [P ₇ R ₄]: A New Class of Superalkalis. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 800-5	6.4	41
510	Super-ion inspired colorful hybrid perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4728-4737	4.3	74
509	Beyond Graphitic Carbon Nitride: Nitrogen-Rich Penta-CN ₂ Sheet. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3993-3998	3.8	125

508	Substituent-Stabilized Organic Dianions in the Gas Phase and Their Potential Use as Electrolytes in Lithium-Ion Batteries. <i>ChemPhysChem</i> , 2016 , 17, 2992-2997	3.2	3
507	Stability of B12(CN)12 ²⁻ Implications for Lithium and Magnesium Ion Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 3768-3772	3.6	19
506	Like Charges Attract?. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2689-95	6.4	23
505	Stability of B12 (CN)12 (2-) : Implications for Lithium and Magnesium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3704-8	16.4	57
504	Integrating superconducting phase and topological crystalline quantum spin Hall effect in hafnium intercalated gallium film. <i>Applied Physics Letters</i> , 2016 , 108, 253102	3.4	4
503	Many faces of carbon 2016 ,		1
502	Magnetic properties of bimetallic clusters composed of Gd and transition metals. <i>Journal of Applied Physics</i> , 2016 , 119, 074301	2.5	4
501	Recent advances in 2D thermoelectric materials 2016 ,		4
500	Enhanced Carbon Dioxide Capture from Landfill Gas Using Bifunctionalized Benzimidazole-Linked Polymers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14648-55	9.5	64
499	Molecular Origin of Properties of Organic-Inorganic Hybrid Perovskites: The Big Picture from Small Clusters. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1596-603	6.4	50
498	Quantum Phase Transition in Germanene and Stanene Bilayer: From Normal Metal to Topological Insulator. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1919-24	6.4	26
497	Lattice thermal conductivity of penta-graphene. <i>Carbon</i> , 2016 , 105, 424-429	10.4	77
496	Strain and carrier-induced coexistence of topologically insulating and superconducting phase in iodized Si(111) films. <i>Nano Research</i> , 2016 , 9, 1578-1589	10	5
495	Intrinsic quantum spin Hall and anomalous Hall effects in h-Sb/Bi epitaxial growth on a ferromagnetic MnO ₂ thin film. <i>Nanoscale</i> , 2016 , 8, 11202-9	7.7	12
494	Valley contrasting in epitaxial growth of In/Tl homoatomic monolayer with anomalous Nernst conductance. <i>Physical Review B</i> , 2016 , 94,	3.3	5
493	Structure and Properties of Polyfluoride Fn(-) Clusters (n = 3-29). <i>Journal of Physical Chemistry A</i> , 2015 , 119, 6483-92	2.8	12
492	Atomic Clusters: Opportunities in the Face of Challenges. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1549-52	6.4	15
491	Unusual stability of multiply charged organo-metallic complexes. <i>RSC Advances</i> , 2015 , 5, 44003-44008	3.7	14

490	Superhalogens: A Bridge between Complex Metal Hydrides and Li Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1119-25	6.4	31
489	Superhalogens beget superhalogens: a case study of (BO ₂) _n oligomers. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26589-93	3.6	10
488	A new C=C embedded porphyrin sheet with superior oxygen reduction performance. <i>Nano Research</i> , 2015 , 8, 2901-2912	10	28
487	New Phosphorene Allotropes Containing Ridges with 2- and 4-Coordination. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24674-24680	3.8	32
486	Tuning magnetic properties of antiferromagnetic chains by exchange interactions: ab initio studies. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26302-6	3.6	11
485	Catalytic activities of platinum nanotubes: a density functional study. <i>European Physical Journal B</i> , 2015 , 88, 1	1.2	2
484	Atomically Thin Transition-Metal Dinitrides: High-Temperature Ferromagnetism and Half-Metallicity. <i>Nano Letters</i> , 2015 , 15, 8277-81	11.5	132
483	Self-assembly of metal atoms (Na, K, Ca) on graphene. <i>Nanoscale</i> , 2015 , 7, 2352-9	7.7	10
482	High-temperature superconductivity in heavily N- or B-doped graphene. <i>Physical Review B</i> , 2015 , 92,	3.3	33
481	A New Silicon Phase with Direct Band Gap and Novel Optoelectronic Properties. <i>Scientific Reports</i> , 2015 , 5, 14342	4.9	62
480	A novel strategy for reversible hydrogen storage in Ca(BH ₄) ₂ . <i>Chemical Communications</i> , 2015 , 51, 11008-11	5.81	37
479	Giant magnetocrystalline anisotropy of 5d transition metal-based phthalocyanine sheet. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17182-9	3.6	15
478	Electronic Structure and Stability of Mono- and Bimetallic Borohydrides and Their Underlying Hydrogen-Storage Properties: A Cluster Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11056-11061	3.8	11
477	Mass spectrometry and its role in advancing cluster science. <i>International Journal of Mass Spectrometry</i> , 2015 , 377, 235-247	1.9	13
476	Porphyrin-based porous sheet: Optoelectronic properties and hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3689-3696	6.7	17
475	Penta-graphene: A new carbon allotrope. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2372-7	11.5	763
474	Pressure-induced magnetic crossover driven by hydrogen bonding in CuF(H ₂ O)(3-chloropyridine). <i>Scientific Reports</i> , 2014 , 4, 6054	4.9	18
473	Aromatic superhalogens. <i>Chemistry - A European Journal</i> , 2014 , 20, 4736-45	4.8	38

472	Anisotropic Mo ₂ -phthalocyanine sheet: a new member of the organometallic family. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 304-7	2.8	7
471	Structures and Phase Transition of a MoS ₂ Monolayer. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1515-1522	3.2	356
470	Superalkalis and superhalogens as building blocks of supersalts. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 638-45	2.8	98
469	Potential of ZrO clusters as replacement Pd catalyst. <i>Journal of Chemical Physics</i> , 2014 , 141, 034301	3.9	1
468	LiFe ₂ Cl _n (n = 4B) clusters: Double-exchange mediated molecular magnets. <i>Applied Physics Letters</i> , 2014 , 105, 163112	3.4	2
467	Identification of hyperhalogens in Ag(n)(BO ₂)(m) (n = 1-3, m = 1-2) clusters: anion photoelectron spectroscopy and density functional calculations. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 26067-74	2.6	11
466	New insights into carbon dioxide interactions with benzimidazole-linked polymers. <i>Chemical Communications</i> , 2014 , 50, 3571-4	5.8	43
465	Organic superhalogens. <i>ChemPhysChem</i> , 2014 , 15, 2903-8	3.2	23
464	Superhalogens as building blocks of halogen-free electrolytes in lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13916-9	16.4	93
463	Tuning electronic and magnetic properties of silicene with magnetic superhalogens. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22979-86	3.6	30
462	Alanate anion, AlH ₄ (-): photoelectron spectrum and computations. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 8158-62	2.8	19
461	Structural, electronic and magnetic properties of neutral and anionic Fe ₂ (BO ₂) _n (n=1B) clusters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 2959-2964	2.3	3
460	18-Electron rule inspired Zintl-like ions composed of all transition metals. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 20241-7	3.6	7
459	Stability and properties of 2D porous nanosheets based on tetraoxa[8]circulene analogues. <i>Nanoscale</i> , 2014 , 6, 14962-70	7.7	25
458	Origin of Red Shift in the Photoabsorption Peak in MEHPPV Polymer. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13444-13450	3.8	11
457	Receptor-ligand interaction at 5-HT ₃ serotonin receptors: a cluster approach. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 8471-6	2.8	2
456	Superhalogens as Building Blocks of Halogen-Free Electrolytes in Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2014 , 126, 14136-14139	3.6	26
455	Intermediate Phases during Decomposition of Metal Borohydrides, M(BH ₄) _n (M = Na, Mg, Y). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28456-28461	3.8	15

454	Tailoring Li adsorption on graphene. <i>Physical Review B</i> , 2014 , 90,	3.3	36
453	Self-consistent determination of Hubbard U for explaining the anomalous magnetism of the Gd13 cluster. <i>Physical Review B</i> , 2014 , 89,	3.3	20
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