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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	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
614	Ferromagnetism in semihydrogenated graphene sheet. <i>Nano Letters</i> , 2009 , 9, 3867-70	11.5	686
613	Materials for Hydrogen Storage: Past, Present, and Future. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 206-211	6.4	676
612	Clustering of Ti on a C60 surface and its effect on hydrogen storage. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14582-3	16.4	606
611	Assembling crystals from clusters. <i>Physical Review Letters</i> , 1992 , 69, 1664-1667	7.4	504
610	First-principles study of hydrogen storage on Li12C60. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9741-5	16.4	474
609	Hydrogen interactions with defects in crystalline solids. <i>Reviews of Modern Physics</i> , 1992 , 64, 559-617	40.5	417
608	Vacancy-induced magnetism in ZnO thin films and nanowires. <i>Physical Review B</i> , 2008 , 77,	3.3	381
607	Atomic clusters: Building blocks for a class of solids. <i>Physical Review B</i> , 1995 , 51, 13705-13716	3.3	367
606	Structures and Phase Transition of a MoS2 Monolayer. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1515-1522	15.8	356
605	Evolution of the electronic structure and properties of neutral and charged aluminum clusters: A comprehensive analysis. <i>Journal of Chemical Physics</i> , 1999 , 111, 1890-1904	3.9	314
604	Super Atomic Clusters: Design Rules and Potential for Building Blocks of Materials. <i>Chemical Reviews</i> , 2018 , 118, 5755-5870	68.1	265
603	Electronic and magnetic properties of a BN sheet decorated with hydrogen and fluorine. <i>Physical Review B</i> , 2010 , 81,	3.3	247
602	Magic numbers in metallo-inorganic clusters: chromium encapsulated in silicon cages. <i>Physical Review Letters</i> , 2002 , 89, 016803	7.4	227
601	Beyond the Periodic Table of Elements: The Role of Superatoms. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1432-42	6.4	207
600	Electronic structure and properties of transition metal-benzene complexes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 3799-808	16.4	207
599	Clusters: a bridge across the disciplines of physics and chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10560-9	11.5	201

598	Exfoliating biocompatible ferromagnetic Cr-trihalide monolayers. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8777-84	3.6	198
597	Direct observation of key reaction intermediates on gold clusters. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2848-9	16.4	196
596	Electric field enhanced hydrogen storage on polarizable materials substrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 2801-6	11.5	194
595	Binding of hydrogen molecules by a transition-metal ion. <i>Physical Review Letters</i> , 1992 , 68, 2277-2280	7.4	191
594	Potential of AlN nanostructures as hydrogen storage materials. <i>ACS Nano</i> , 2009 , 3, 621-6	16.7	183
593	Carbon nanomaterials as catalysts for hydrogen uptake and release in NaAlH ₄ . <i>Nano Letters</i> , 2009 , 9, 1501-5	11.5	180
592	Electronic structures and bonding of graphyne sheet and its BN analog. <i>Journal of Chemical Physics</i> , 2011 , 134, 174701	3.9	163
591	Unexpected stability of Al ₄ H ₆ : a borane analog?. <i>Science</i> , 2007 , 315, 356-8	33.3	155
590	Physics of small metal clusters: Topology, magnetism, and electronic structure. <i>Physical Review B</i> , 1985 , 32, 2058-2069	3.3	152
589	Spin conservation accounts for aluminum cluster anion reactivity pattern with O ₂ . <i>Science</i> , 2008 , 319, 438-42	33.3	147
588	The Intrinsic Ferromagnetism in a MnO ₂ Monolayer. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3382-6	6.4	142
587	Giant magnetic moments of nitrogen-doped Mn clusters and their relevance to ferromagnetism in Mn-doped GaN. <i>Physical Review Letters</i> , 2002 , 89, 185504	7.4	138
586	Systematic Study of Oxo, Peroxo, and Superoxo Isomers of 3d-Metal Dioxides and Their Anions. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 11961-11971	2.8	138
585	Atomically Thin Transition-Metal Dinitrides: High-Temperature Ferromagnetism and Half-Metallicity. <i>Nano Letters</i> , 2015 , 15, 8277-81	11.5	132
584	Functionalized Graphitic Carbon Nitride for Efficient Energy Storage. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6055-6059	3.8	131
583	Hyperhalogens: discovery of a new class of highly electronegative species. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8966-70	16.4	131
582	Hydrogen storage and the 18-electron rule. <i>Journal of Chemical Physics</i> , 2006 , 124, 224703	3.9	128
581	Beyond Graphitic Carbon Nitride: Nitrogen-Rich Penta-CN ₂ Sheet. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3993-3998	3.8	125

580	Origin of the unusual stability of MnO ₄ ²⁻ . <i>Chemical Physics Letters</i> , 1999 , 312, 598-605	2.5	125
579	Geometry and electronic structure of Vn(Bz) _m complexes. <i>Journal of Chemical Physics</i> , 2004 , 120, 10414-23	3.3	124
578	Magnetism and local order: Ab initio tight-binding theory. <i>Physical Review B</i> , 1989 , 39, 6914-6924	3.3	119
577	Electronic structure and magnetism of Rh _n (n=2-13) clusters. <i>Physical Review B</i> , 1999 , 59, 5214-5222	3.3	117
576	Theoretical Study of Hydrogen Storage in Ca-Coated Fullerenes. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 374-9	6.4	115
575	Three-dimensional metallic boron nitride. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18216-21	6.4	113
574	Structure and bonding of Au ₅ M (M=Na, Mg, Al, Si, P, and S) clusters. <i>Physical Review B</i> , 2006 , 74,	3.3	110
573	Graphene: 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
572	Carrier-mediated ferromagnetism in N codoped (Zn,Mn)O (101 $\bar{1}$ 0) thin films. <i>Physical Review B</i> , 2004 , 70,	3.3	109
571	Atomic and electronic structure of neutral and charged Si _n O _m clusters. <i>Journal of Chemical Physics</i> , 1998 , 109, 1245-1250	3.9	108
570	Anomalous magnetism in small Mn clusters. <i>Chemical Physics Letters</i> , 1998 , 289, 473-479	2.5	106
569	Optical properties of Ti ₃ SiC ₂ and Ti ₄ AlN ₃ . <i>Applied Physics Letters</i> , 2008 , 92, 221907	3.4	106
568	Magnetism in small vanadium clusters. <i>Physical Review B</i> , 1991 , 43, 8179-8182	3.3	106
567	Physics of Nickel Clusters. 2. Electronic Structure and Magnetic Properties. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 1748-1759	2.8	105
566	Appearance of bulk properties in small tungsten oxide clusters. <i>Journal of Chemical Physics</i> , 2004 , 121, 9417-22	3.9	105
565	Electronic structure of chromium oxides, CrO _n and CrO _n (n=1-8) from photoelectron spectroscopy and density functional theory calculations. <i>Journal of Chemical Physics</i> , 2001 , 115, 7935-7944	3.9	105
564	Temperature Dependence of Electric Field Gradients in Noncubic Metals. <i>Physical Review Letters</i> , 1976 , 36, 418-421	7.4	104
563	Interactions of Au cluster anions with oxygen. <i>Journal of Chemical Physics</i> , 2004 , 120, 6510-5	3.9	101

562	Stable three-dimensional metallic carbon with interlocking hexagons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18809-13	11.5	100
561	Electronic structure of hydrogen in simple metals. <i>Physical Review B</i> , 1978 , 17, 3518-3524	3.3	99
560	Superalkalis and superhalogens as building blocks of supersalts. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 638-45	2.8	98
559	Unique magnetic signature of transition metal atoms supported on benzene. <i>Chemical Physics Letters</i> , 2000 , 321, 142-150	2.5	97
558	Physics of Nickel Clusters: Energetics and Equilibrium Geometries. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 1072-1080	2.8	96
557	Storage of molecular hydrogen in B-N cage: energetics and thermal stability. <i>Nano Letters</i> , 2005 , 5, 1273-1275	1.5	96
556	Electronic, magnetic, and geometric structure of metallo-carbohedrenes. <i>Science</i> , 1992 , 258, 1640-3	33.3	95
555	Electronic Structure of the 3d Metal Monoxide Anions. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 5374-5389	3.9	94
554	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
553	Atomic and electronic structures of neutral and charged boron and boron-rich clusters. <i>Journal of Chemical Physics</i> , 1997 , 107, 132-140	3.9	92
552	The rise of two-dimensional van der Waals ferroelectrics. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2018 , 8, e1365	7.9	89
551	Ferromagnetism in Mn-doped GaN nanowires. <i>Physical Review Letters</i> , 2005 , 95, 167202	7.4	89
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548	Ferromagnetism in small clusters. <i>Physical Review Letters</i> , 1991 , 66, 938-941	7.4	84
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546	Stabilization of Si ₆₀ cage structure. <i>Physical Review Letters</i> , 2003 , 90, 135503	7.4	83
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- 542 Equilibrium Geometry, Stability, and Magnetic Properties of Small MnO Clusters. *Journal of the American Chemical Society*, **1999**, 121, 644-652 16.4 81
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503	Tuning magnetic properties of graphene nanoribbons with topological line defects: From antiferromagnetic to ferromagnetic. <i>Physical Review B</i> , 2012 , 85,	3.3	59
502	Giant Magnetic Moments and Magnetic Bistability of Stoichiometric MnO Clusters. <i>Physical Review Letters</i> , 1998 , 81, 2970-2973	7.4	59
501	Theoretical study of the stability and electronic structure of Al(BH ₄) _{n=1-4} and Al(BF ₄) _{n=1-4} and their hyperhalogen behavior. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 10237-43	2.8	58
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499	Evolution of the electronic and structural properties of microclusters. <i>Physical Review B</i> , 1987 , 36, 953-960	3.3	58
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497	FeO ₄ : A unique example of a closed-shell cluster mimicking a superhalogen. <i>Physical Review A</i> , 1999 , 59, 3681-3684	2.6	57
496	Stability of B ₁₂ (CN) ₁₂ (2-) : Implications for Lithium and Magnesium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3704-8	16.4	57
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- 474 Energetics and electronic structure of carbon doped aluminum clusters. *Journal of Chemical Physics*, **2001**, 115, 778-783 3.9 50
- 473 Molecular Origin of Properties of Organic-Inorganic Hybrid Perovskites: The Big Picture from Small Clusters. *Journal of Physical Chemistry Letters*, **2016**, 7, 1596-603 6.4 50

472	Body-Centered Tetragonal C : A Novel Topological Node-Line Semimetallic Carbon Composed of Tetrarings. <i>Small</i> , 2017 , 13, 1602894	11	49
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470	Structures and photoelectron spectroscopy of Cu(n)(BO ₂) _m -(n, m=1, 2) clusters: observation of hyperhalogen behavior. <i>Journal of Chemical Physics</i> , 2011 , 134, 094309	3.9	49
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465	Exceptional Thermoelectric Properties of Layered GeAs ₂ . <i>Chemistry of Materials</i> , 2017 , 29, 9300-9307	9.6	47
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450	SiTe monolayers: Si-based analogues of phosphorene. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6353-6361	6.1	44
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