Anastassia N Alexandrova

List of Publications by Citations

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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.

160 papers

5,136 citations

36 h-index

67 g-index

189 ext. papers

5,898 ext. citations

avg, IF

6.37 L-index

#	Paper	IF	Citations
160	All-boron aromatic clusters as potential new inorganic ligands and building blocks in chemistry. <i>Coordination Chemistry Reviews</i> , 2006 , 250, 2811-2866	23.2	509
159	Structure of the $Na(x)Cl(x+1)$ (-) (x=1-4) clusters via ab initio genetic algorithm and photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2004 , 121, 5709-19	3.9	247
158	Electronic structure and chemical bonding of B5Iand B5 by photoelectron spectroscopy and ab initio calculations. <i>Journal of Chemical Physics</i> , 2002 , 117, 7917-7924	3.9	193
157	Search for the Lin(0/+1/-1) (n = 5-7) Lowest-Energy Structures Using the ab Initio Gradient Embedded Genetic Algorithm (GEGA). Elucidation of the Chemical Bonding in the Lithium Clusters. Journal of Chemical Theory and Computation, 2005, 1, 566-80	6.4	181
156	EAromaticity and EAntiaromaticity in Alkali Metal and Alkaline Earth Metal Small Clusters. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 554-560	2.8	178
155	Structure and Bonding in B6- and B6: Planarity and Antiaromaticity. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 1359-1369	2.8	175
154	Photoelectron Spectroscopy and ab Initio Study of B3- and B4- Anions and Their Neutrals. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 9319-9328	2.8	169
153	Molecular wheel B8(2-) as a new inorganic ligand. photoelectron spectroscopy and ab initio characterization of LiB8(-). <i>Inorganic Chemistry</i> , 2004 , 43, 3552-4	5.1	135
152	Fluxionality of Catalytic Clusters: When It Matters and How to Address It. <i>ACS Catalysis</i> , 2017 , 7, 1905-7	1913.1	106
151	Ethylene Dehydrogenation on Pt4,7,8 Clusters on Al2O3: Strong Cluster Size Dependence Linked to Preferred Catalyst Morphologies. <i>ACS Catalysis</i> , 2017 , 7, 3322-3335	13.1	95
150	Photoelectron spectroscopy and ab initio study of the doubly antiaromatic B(6) (2-) dianion in the LiB(6) (-) cluster. <i>Journal of Chemical Physics</i> , 2005 , 122, 54313	3.9	92
149	Mysteries of metals in metalloenzymes. Accounts of Chemical Research, 2014, 47, 3110-7	24.3	87
148	Ensemble-Average Representation of Pt Clusters in Conditions of Catalysis Accessed through GPU Accelerated Deep Neural Network Fitting Global Optimization. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 6213-6226	6.4	81
147	Catalytic mechanism and performance of computationally designed enzymes for Kemp elimination. Journal of the American Chemical Society, 2008 , 130, 15907-15	16.4	80
146	Boron Switch for Selectivity of Catalytic Dehydrogenation on Size-Selected Pt Clusters on AlO. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11568-11575	16.4	77
145	Why urea eliminates ammonia rather than hydrolyzes in aqueous solution. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 720-30	3.4	75
144	Visible-Light-Induced Olefin Activation Using 3D Aromatic Boron-Rich Cluster Photooxidants. Journal of the American Chemical Society, 2016 , 138, 6952-5	16.4	75

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143	Ensembles of Metastable States Govern Heterogeneous Catalysis on Dynamic Interfaces. <i>Accounts of Chemical Research</i> , 2020 , 53, 447-458	24.3	72	
142	Artificial Photosynthesis on TiO2-Passivated InP Nanopillars. <i>Nano Letters</i> , 2015 , 15, 6177-81	11.5	67	
141	Hepta- and Octacoordinate Boron in Molecular Wheels of Eight- and Nine-Atom Boron Clusters: Observation and Confirmation. <i>Angewandte Chemie</i> , 2003 , 115, 6186-6190	3.6	65	
140	B13+: a photodriven molecular Wankel engine. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8512-5	16.4	64	
139	Dodecaborane-Based Dopants Designed to Shield Anion Electrostatics Lead to Increased Carrier Mobility in a Doped Conjugated Polymer. <i>Advanced Materials</i> , 2019 , 31, e1805647	24	60	
138	Molecular basis for nanoscopic membrane curvature generation from quantum mechanical models and synthetic transporter sequences. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19207-16	16.4	58	
137	HI(H2O)n clusters: microsolvation of the hydrogen atom via molecular ab initio gradient embedded genetic algorithm (GEGA). <i>Journal of Physical Chemistry A</i> , 2010 , 114, 12591-9	2.8	57	
136	Flattening the b(6)h(6)(2-) octahedron Ab initio prediction of a new family of planar all-boron aromatic molecules. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10786-7	16.4	56	
135	Origin of extraordinary stability of square-planar carbon atoms in surface carbides of cobalt and nickel. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5312-6	16.4	55	
134	Photochemistry of DNA fragments via semiclassical nonadiabatic dynamics. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12116-28	3.4	51	
133	Computational Design of Clusters for Catalysis. Annual Review of Physical Chemistry, 2018, 69, 377-400	15.7	50	
132	Local Fluxionality of Surface-Deposited Cluster Catalysts: The Case of Pt on AlO. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1696-1702	6.4	50	
131	PtZnH5(-), A EAromatic Cluster. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1596-601	6.4	48	
130	Theoretical study of hydrogenation of the doubly aromatic B7- cluster. <i>Journal of Molecular Modeling</i> , 2006 , 12, 569-76	2	46	
129	Dynamics of Subnanometer Pt Clusters Can Break the Scaling Relationships in Catalysis. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 460-467	6.4	45	
128	The Golden Crown: A Single Au Atom that Boosts the CO Oxidation Catalyzed by a Palladium Cluster on Titania Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2250-2255	6.4	40	
127	Dynamic Phase Diagram of Catalytic Surface of Hexagonal Boron Nitride under Conditions of Oxidative Dehydrogenation of Propane. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 20-25	6.4	38	
126	Why Boron Nitride is such a Selective Catalyst for the Oxidative Dehydrogenation of Propane. Angewandte Chemie - International Edition, 2020, 59, 16527-16535	16.4	37	

125	Mystery of Three Borides: Differential Metal B oron Bonding Governing Superhard Structures. <i>Chemistry of Materials</i> , 2017 , 29, 9892-9896	9.6	37
124	SmB Cluster Anion: Covalency Involving f Orbitals. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 1849-185	42.8	36
123	Mechanism of CO2 Photocatalytic Reduction to Methane and Methanol on Defected Anatase TiO2 (101): A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3505-3511	3.8	36
122	Alloying Pt Sub-nano-clusters with Boron: Sintering Preventative and Coke Antagonist?. <i>ACS Catalysis</i> , 2015 , 5, 5719-5727	13.1	35
121	Cu,Zn-superoxide dismutase without Zn is folded but catalytically inactive. <i>Journal of Molecular Biology</i> , 2014 , 426, 4112-4124	6.5	35
120	CO Hydrogenation to Formate and Formic Acid by Bimetallic Palladium-Copper Hydride Clusters. Journal of the American Chemical Society, 2020 , 142, 7930-7936	16.4	34
119	Lithium cluster anions: photoelectron spectroscopy and ab initio calculations. <i>Journal of Chemical Physics</i> , 2011 , 134, 044322	3.9	34
118	Prediction of Two-Dimensional Phase of Boron with Anisotropic Electric Conductivity. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1224-1228	6.4	32
117	Quantified electrostatic preorganization in enzymes using the geometry of the electron charge density. <i>Chemical Science</i> , 2017 , 8, 5010-5018	9.4	31
116	AFFCK: Adaptive Force-Field-Assisted ab Initio Coalescence Kick Method for Global Minimum Search. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2385-93	6.4	31
115	Persistent Covalency and Planarity in the BnAl6fi2fand LiBnAl6fif(n = 0f) Cluster Ions. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2046-2051	6.4	31
114	Metal-dependent activity of Fe and Ni acireductone dioxygenases: how two electrons reroute the catalytic pathway. <i>Journal of Molecular Biology</i> , 2013 , 425, 3007-18	6.5	30
113	Structure, stability, and mobility of small Pd clusters on the stoichiometric and defective TiO2 (110) surfaces. <i>Journal of Chemical Physics</i> , 2011 , 135, 174702	3.9	30
112	Installation of internal electric fields by non-redox active cations in transition metal complexes. <i>Chemical Science</i> , 2019 , 10, 10135-10142	9.4	29
111	Selected AB4(2-/-) (A = C, Si, Ge; B = Al, Ga, In) ions: a battle between covalency and aromaticity, and prediction of square planar Si in SiIn4(2-/-). <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14815-21	3.6	29
110	Oxygen Vacancies of Anatase(101): Extreme Sensitivity to the Density Functional Theory Method. Journal of Chemical Theory and Computation, 2016 , 12, 2889-95	6.4	29
109	On the structure and chemical bonding of Si6(2-) and Si6(2-) in NaSi6(-) upon Na+ coordination. Journal of Chemical Physics, 2006 , 124, 124305	3.9	28
108	Rutile-Deposited PtPd clusters: A Hypothesis Regarding the Stability at 50/50 Ratio. <i>ACS Catalysis</i> , 2014 , 4, 3570-3580	13.1	27

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107	Cu3C4-: a new sandwich molecule with two revolving C2(2-) units. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 562-70	2.8	27	
106	Microscopic Study of Atomic Layer Deposition of TiO2 on GaAs and Its Photocatalytic Application. <i>Chemistry of Materials</i> , 2015 , 27, 7977-7981	9.6	25	
105	Why urease is a di-nickel enzyme whereas the CcrA flactamase is a di-zinc enzyme. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 10649-56	3.4	25	
104	Coking-Resistant Sub-Nano Dehydrogenation Catalysts: PtnSnx/SiO2 (n = 4, 7). <i>ACS Catalysis</i> , 2020 , 10, 4543-4558	13.1	24	
103	(Photo)Electrocatalytic CO2 Reduction at the Defective Anatase TiO2 (101) Surface. <i>ACS Catalysis</i> , 2020 , 10, 4048-4058	13.1	24	
102	Rigid substructure search. <i>Bioinformatics</i> , 2011 , 27, 1327-9	7.2	24	
101	Arachno, nido, and closo aromatic isomers of the Li6B6H6 molecule. <i>Inorganic Chemistry</i> , 2004 , 43, 3588	3- 9.2	24	
100	Structural Rearrangements of Subnanometer Cu Oxide Clusters Govern Catalytic Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 5309-5317	13.1	24	
99	Surface-supported cluster catalysis: Ensembles of metastable states run the show. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2019 , 9, e1420	7.9	22	
98	Germanium as key dopant to boost the catalytic performance of small platinum clusters for alkane dehydrogenation. <i>Journal of Catalysis</i> , 2019 , 374, 93-100	7.3	22	
97	Hybrid dynamics simulation engine for metalloproteins. <i>Biophysical Journal</i> , 2012 , 103, 767-76	2.9	22	
96	Origin of the activity drop with the E50D variant of catalytic antibody 34E4 for Kemp elimination. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 497-504	3.4	22	
95	How metal substitution affects the enzymatic activity of catechol-o-methyltransferase. <i>PLoS ONE</i> , 2012 , 7, e47172	3.7	21	
94	Sn-modification of Pt/alumina model catalysts: Suppression of carbon deposition and enhanced thermal stability. <i>Journal of Chemical Physics</i> , 2020 , 152, 024702	3.9	20	
93	Nanoalloying MgO-Deposited Pt Clusters with Si To Control the Selectivity of Alkane Dehydrogenation. <i>ACS Catalysis</i> , 2018 , 8, 8346-8356	13.1	20	
92	The Role of the Flexible L43-S54 Protein Loop in the CcrA Metallo-Elactamase in Binding Structurally Dissimilar Elactam Antibiotics. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 730-7	6.4	20	
91	Photoelectron spectroscopic and theoretical study of the [HPd([[2)-H2)](-) cluster anion. <i>Journal of Chemical Physics</i> , 2015 , 143, 094307	3.9	20	
90	Double EAromaticity in a Surface-Deposited Cluster: Pd4 on TiO2 (110). <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 751-4	6.4	20	

89	Ambient methane functionalization initiated by electrochemical oxidation of a vanadium (V)-oxo dimer. <i>Nature Communications</i> , 2020 , 11, 3686	17.4	20
88	Pt cluster on alumina under a pressure of hydrogen: Support-dependent reconstruction from first-principles global optimization. <i>Journal of Chemical Physics</i> , 2019 , 151, 194703	3.9	20
87	On the mechanism and rate of spontaneous decomposition of amino acids. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 13624-32	3.4	19
86	Local Electric Fields as a Natural Switch of Heme-Iron Protein Reactivity. ACS Catalysis, 2021, 11, 6534-6	5 <u>46</u> 1	18
85	Reagent-Triggered Isomerization of Fluxional Cluster Catalyst via Dynamic Coupling. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3089-3094	6.4	16
84	Interpreting the Operando XANES of Surface-Supported Subnanometer Clusters: When Fluxionality, Oxidation State, and Size Effect Fight. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10057-10	850	16
83	Histone Deacetylase 8: Characterization of Physiological Divalent Metal Catalysis. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 5884-95	3.4	16
82	Charge Density in Enzyme Active Site as a Descriptor of Electrostatic Preorganization. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 2367-2373	6.1	15
81	PtIn Clusters on Stoichiometric MgO(100) and TiO2(110): Dramatically Different Sintering Behavior. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6047-6055	3.8	15
80	Acid-Base Control of Valency within Carboranedithiol Self-Assembled Monolayers: Molecules Do the Can-Can. <i>ACS Nano</i> , 2018 , 12, 2211-2221	16.7	15
79	Preparation of Size- and Composition-Controlled PtnSnx/SiO2 (n = 4, 7, 24) Bimetallic Model Catalysts with Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 16194-16209	3.8	14
78	Computational treatment of metalloproteins. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 5945-56	3.4	14
77	Tug of war between AO-hybridization and aromaticity in dictating structures of Li-doped alkali clusters. <i>Chemical Physics Letters</i> , 2012 , 533, 1-5	2.5	14
76	Oxidative Dehydrogenation of Cyclohexane by Cu vs Pd Clusters: Selectivity Control by Specific Cluster Dynamics. <i>ChemCatChem</i> , 2020 , 12, 1307-1315	5.2	14
75	Direct Look at the Electric Field in Ketosteroid Isomerase and Its Variants. ACS Catalysis, 2020, 10, 9915	-9924	14
74	Geometry Change in a Series of Zirconium Compounds during Lactide Ring-Opening Polymerization. <i>Organometallics</i> , 2018 , 37, 4040-4047	3.8	14
73	Diborane Interactions with Pt7/Alumina: Preparation of Size-Controlled Borated Pt Model Catalysts. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1631-1644	3.8	13
72	Pure and Zn-doped Pt clusters go flat and upright on MgO(100). <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 26436-42	3.6	13

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71	Alloying with Sn Suppresses Sintering of Size-Selected Subnano Pt Clusters on SiO2 with and without Adsorbates. <i>Chemistry of Materials</i> , 2020 , 32, 8595-8605	9.6	13
70	Predictive methods for computational metalloenzyme redesign - a test case with carboxypeptidase A. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31744-31756	3.6	11
69	Assessing the Bonding Properties of Individual Molecular Orbitals. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 12862-7	2.8	11
68	Fjord-Edge Graphene Nanoribbons with Site-Specific Nitrogen Substitution. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18093-18102	16.4	11
67	Conservative tryptophan mutants of the protein tyrosine phosphatase YopH exhibit impaired WPD-loop function and crystallize with divanadate esters in their active sites. <i>Biochemistry</i> , 2015 , 54, 6490-500	3.2	10
66	Understanding How Bonding Controls Strength Anisotropy in Hard Materials by Comparing the High-Pressure Behavior of Orthorhombic and Tetragonal Tungsten Monoboride. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5647-5656	3.8	10
65	Co2+ acireductone dioxygenase: Fe2+ mechanism, Ni2+ mechanism, or something else?. <i>Chemical Physics Letters</i> , 2014 , 604, 77-82	2.5	10
64	Vibrational predissociation spectra of the , n=3🛭0, 12 clusters: EvenBdd alternation in the core ion. <i>International Journal of Mass Spectrometry</i> , 2009 , 283, 94-99	1.9	10
63	Hydrogen Evolution on Restructured B-Rich WB: Metastable Surface States and Isolated Active Sites. <i>ACS Catalysis</i> , 2020 , 10, 13867-13877	13.1	10
62	Franck-Condon Tuning of Optical Cycling Centers by Organic Functionalization. <i>Physical Review Letters</i> , 2021 , 126, 123002	7.4	10
61	Metallic and Magnetic 2D Materials Containing Planar Tetracoordinated C and N. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21685-21690	3.8	10
60	Global Activity Search Uncovers Reaction Induced Concomitant Catalyst Restructuring for Alkane Dissociation on Model Pt Catalysts. <i>ACS Catalysis</i> , 2021 , 11, 1877-1885	13.1	10
59	Multicenter Bonding Effects in Oxygen Vacancy in the Bulk and on the Surface of MgO. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11933-11937	3.8	10
58	Hydrogen Trioxide Anion: A Possible Atmospheric Intermediate and Path to Oxygen-Rich Molecules. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 1203-1206	2.8	9
57	Designing clusters for heterogeneous catalysis. <i>Physics Today</i> , 2019 , 72, 38-43	0.9	8
56	The mechanism of the Pd-catalyzed formation of coumarins: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1347-53	3.6	8
55	The PtAl(-) and PtAl2(-) anions: theoretical and photoelectron spectroscopic characterization. <i>Journal of Chemical Physics</i> , 2014 , 140, 164316	3.9	8
54	B13+: A Photodriven Molecular Wankel Engine. <i>Angewandte Chemie</i> , 2012 , 124, 8640-8643	3.6	8

53	Promiscuous DNA alkyladenine glycosylase dramatically favors a bound lesion over undamaged adenine. <i>Biophysical Chemistry</i> , 2010 , 152, 118-27	3.5	8
52	Heterogeneity in Local Chemical Bonding Explains Spectral Broadening in Quantum Dots with Cu Impurities. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5705-5713	3.8	8
51	Advances in optimizing enzyme electrostatic preorganization. <i>Current Opinion in Structural Biology</i> , 2021 , 72, 1-8	8.1	8
50	Uncovered Dynamic Coupling Resolves the Ambiguous Mechanism of Phenylalanine Hydroxylase Oxygen Binding. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 4534-4539	3.4	7
49	Toxic and Physiological Metal Uptake and Release by Human Serum Transferrin. <i>Biophysical Journal</i> , 2020 , 118, 2979-2988	2.9	7
48	When Fluxionality Beats Size Selection: Acceleration of Ostwald Ripening of Sub-Nano Clusters. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11973-11982	16.4	7
47	Visualizing the Dynamic Metalation State of New Delhi Metallo-Elactamase-1 in Bacteria Using a Reversible Fluorescent Probe. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8314-8323	16.4	7
46	Photoinduced Carrier Generation and Distribution in Solution-Deposited Titanyl Phthalocyanine Monolayers. <i>Chemistry of Materials</i> , 2019 , 31, 10109-10116	9.6	7
45	Stoichiometry-controllable optical defects in CuxIn2\(\mathbb{B}\)Sy quantum dots for energy harvesting. Journal of Materials Chemistry A, 2020 , 8, 12556-12565	13	6
44	Photoelectron spectroscopic and computational study of the PtMgH3,5(-) cluster anions. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19345-9	3.6	6
43	Strain to alter the covalency and superconductivity in transition metal diborides. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10700-10707	7.1	6
42	Global Optimization of Adsorbate Covered Supported Cluster Catalysts: The Case of Pt7H10CH3 on FAl2O3. <i>ChemCatChem</i> , 2020 , 12, 762-770	5.2	6
41	The Case for Enzymatic Competitive Metal Affinity Methods. ACS Catalysis, 2020, 10, 2298-2307	13.1	5
40	The same in the bulk but different as clusters: X3Y3 (X = B, Al, Ga; Y = P, As). <i>Chemical Physics Letters</i> , 2013 , 588, 37-42	2.5	5
39	Optical Cycling Functionalization of Arenes. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3989-3995	6.4	5
38	Machine Learning to Predict Diels-Alder Reaction Barriers from the Reactant State Electron Density. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 6203-6213	6.4	5
37	Divide-and-Conquer Chemical Bonding Models for Materials: A Tool for Materials Design at the Electronic Level. <i>Chemistry of Materials</i> , 2017 , 29, 8555-8565	9.6	4
36	Photooxidative Generation of Dodecaborate-Based Weakly Coordinating Anions. <i>Inorganic Chemistry</i> , 2019 , 58, 10516-10526	5.1	4

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35	EAromaticity in polyhydride complexes of Ru, Ir, Os, and Pt. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11644-52	3.6	4
34	Origin of Extraordinary Stability of Square-Planar Carbon Atoms in Surface Carbides of Cobalt and Nickel. <i>Angewandte Chemie</i> , 2015 , 127, 5402-5406	3.6	4
33	Can Fluxionality of Subnanometer Cluster Catalysts Solely Cause Non-Arrhenius Behavior in Catalysis?. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19556-19562	3.8	4
32	Heterogeneous Intramolecular Electric Field as a Descriptor of Diels-Alder Reactivity. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 1289-1298	2.8	4
31	Dynamical Bonding Driving Mixed Valency in a Metal Boride. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10996-11002	16.4	3
30	Why Boron Nitride is such a Selective Catalyst for the Oxidative Dehydrogenation of Propane. <i>Angewandte Chemie</i> , 2020 , 132, 16670-16678	3.6	3
29	Characteristics of Impactful Computational Contributions to The Journal of Physical Chemistry C. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13509-13510	3.8	3
28	Influence of Terminal Carboxyl Groups on the Structure and Reactivity of Functionalized m-Carboranethiolate Self-Assembled Monolayers. <i>Chemistry of Materials</i> , 2020 , 32, 6800-6809	9.6	3
27	Computational design and characterisation of artificial enzymes for Kemp elimination. <i>Molecular Simulation</i> , 2011 , 37, 557-571	2	3
26	Understanding the Hardness of Doped WB4.2. Journal of Physical Chemistry C, 2021, 125, 9486-9496	3.8	3
25	Electrostatic regulation of blue copper sites. <i>Chemical Science</i> , 2021 , 12, 11406-11413	9.4	3
24	Promoting the Cleavage of CD Bonds at the Interface between a Metal Oxide Cluster and a Co(0001) Support. <i>ACS Catalysis</i> , 2020 , 10, 14722-14731	13.1	2
23	Dynamical Bonding Driving Mixed Valency in a Metal Boride. <i>Angewandte Chemie</i> , 2020 , 132, 11089-110	0356	2
22	Oxidation Dynamics of Supported Catalytic Cu Clusters: Coupling to Fluxionality. <i>ACS Catalysis</i> , 2022 , 12, 818-827	13.1	2
21	Resonant and Selective Excitation of Photocatalytically Active Defect Sites in TiO. ACS Applied Materials & Interfaces, 2019, 11, 10351-10355	9.5	1
20	4th International Conference on Chemical Bonding. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 9353-93	56 .8	1
19	Sub-Nano Clusters: The Last Frontier of Inorganic Chemistry. <i>Advances in Chemical Physics</i> , 2014 , 73-100)	1
18	Predicting Effects of Site-Directed Mutagenesis on Enzyme Kinetics by QM/MM and QM Calculations: A Case of Glutamate Carboxypeptidase II <i>Journal of Physical Chemistry B</i> , 2022 ,	3.4	1

17	Interpreting the Operando X-ray Absorption Near-Edge Structure of Supported Cu and CuPd Clusters in Conditions of Oxidative Dehydrogenation of Propane: Dynamic Changes in Composition and Size. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1972-1981	3.8	1
16	Towards a Single Chemical Model for Understanding Lanthanide Hexaborides. <i>Angewandte Chemie</i> , 2020 , 132, 22873-22878	3.6	1
15	Titr-DMD-A Rapid, Coarse-Grained Quasi-All-Atom Constant pH Molecular Dynamics Framework. Journal of Chemical Theory and Computation, 2021 , 17, 4538-4549	6.4	1
14	Suggesting Reviewers to Improve Your Manuscript. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14493-14	44991	1
13	Use of QM/DMD as a Multiscale Approach to Modeling Metalloenzymes. <i>Methods in Enzymology</i> , 2016 , 577, 319-39	1.7	1
12	Surface chemical trapping of optical cycling centers. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 211-	·2 1.8	1
11	Revising Manuscripts: Trying to Make Everyone Happy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1808	7 ₃ 1 8 08	881
10	Electron Density Geometry and the Quantum Theory of Atoms in Molecules <i>Journal of Physical Chemistry A</i> , 2021 , 125, 10622-10631	2.8	1
9	Electrocatalytic Methane Functionalization with d Early Transition Metals Under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26630-26638	16.4	О
8	Regularization of least squares problems in CHARMM parameter optimization by truncated singular value decompositions. <i>Journal of Chemical Physics</i> , 2021 , 154, 184101	3.9	O
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