

Peng Zhang

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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.

150
papers

9,880
citations

50
h-index

97
g-index

155
ext. papers

11,617
ext. citations

9.2
avg, IF

6.39
L-index

#	Paper	IF	Citations
150	Photochemical route for synthesizing atomically dispersed palladium catalysts. <i>Science</i> , 2016 , 352, 797-801	33.3	1141
149	A single iron site confined in a graphene matrix for the catalytic oxidation of benzene at room temperature. <i>Science Advances</i> , 2015 , 1, e1500462	14.3	562
148	Interfacial effects in iron-nickel hydroxide-platinum nanoparticles enhance catalytic oxidation. <i>Science</i> , 2014 , 344, 495-9	33.3	479
147	Identification of a highly luminescent Au ₂₂ (SG) ₁₈ nanocluster. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1246-9	16.4	436
146	Enhancing multiphoton upconversion through energy clustering at sublattice level. <i>Nature Materials</i> , 2014 , 13, 157-62	27	435
145	Highly active and durable methanol oxidation electrocatalyst based on the synergy of platinum-nickel hydroxide-graphene. <i>Nature Communications</i> , 2015 , 6, 10035	17.4	351
144	X-ray studies of the structure and electronic behavior of alkanethiolate-capped gold nanoparticles: the interplay of size and surface effects. <i>Physical Review Letters</i> , 2003 , 90, 245502	7.4	321
143	Ultrasmall and phase-pure WC nanoparticles for efficient electrocatalytic and photoelectrochemical hydrogen evolution. <i>Nature Communications</i> , 2016 , 7, 13216	17.4	265
142	Ruthenium atomically dispersed in carbon outperforms platinum toward hydrogen evolution in alkaline media. <i>Nature Communications</i> , 2019 , 10, 631	17.4	260
141	Highly efficient, NiAu-catalyzed hydrogenolysis of lignin into phenolic chemicals. <i>Green Chemistry</i> , 2014 , 16, 2432-2437	10	201
140	Fe Stabilization by Intermetallic L1-FePt and Pt Catalysis Enhancement in L1-FePt/Pt Nanoparticles for Efficient Oxygen Reduction Reaction in Fuel Cells. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2926-2932	16.4	196
139	Kinetic control and thermodynamic selection in the synthesis of atomically precise gold nanoclusters. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9670-3	16.4	182
138	Golden single-atomic-site platinum electrocatalysts. <i>Nature Materials</i> , 2018 , 17, 1033-1039	27	177
137	Promoting Effect of Ni(OH) on Palladium Nanocrystals Leads to Greatly Improved Operation Durability for Electrocatalytic Ethanol Oxidation in Alkaline Solution. <i>Advanced Materials</i> , 2017 , 29, 1703057	24	169
136	Ultrastable atomic copper nanosheets for selective electrochemical reduction of carbon dioxide. <i>Science Advances</i> , 2017 , 3, e1701069	14.3	153
135	Subnanometric Hybrid Pd-M(OH) ₂ , M = Ni, Co, Clusters in Zeolites as Highly Efficient Nanocatalysts for Hydrogen Generation. <i>CheM</i> , 2017 , 3, 477-493	16.2	148
134	Tuning the electronic behavior of Au nanoparticles with capping molecules. <i>Applied Physics Letters</i> , 2002 , 81, 736-738	3.4	146

133	Properties and applications of protein-stabilized fluorescent gold nanoclusters: short review. <i>Journal of Nanophotonics</i> , 2012 , 6, 064504	1.1	132
132	O-coordinated W-Mo dual-atom catalyst for pH-universal electrocatalytic hydrogen evolution. <i>Science Advances</i> , 2020 , 6, eaba6586	14.3	123
131	Amorphous MoS ₃ Infiltrated with Carbon Nanotubes as an Advanced Anode Material of Sodium-Ion Batteries with Large Gravimetric, Areal, and Volumetric Capacities. <i>Advanced Energy Materials</i> , 2017 , 7, 1601602	21.8	119
130	X-ray Spectroscopy of Gold-thiolate Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25291-25298	3.8	116
129	Alloy-structure-dependent electronic behavior and surface properties of AuPd nanoparticles. <i>Chemical Physics Letters</i> , 2008 , 461, 254-259	2.5	115
128	Pd Nanoparticles Coupled to WO Nanorods for Enhanced Electrochemical Oxidation of Formic Acid. <i>Nano Letters</i> , 2017 , 17, 2727-2731	11.5	113
127	In situ spectroscopy-guided engineering of rhodium single-atom catalysts for CO oxidation. <i>Nature Communications</i> , 2019 , 10, 1330	17.4	111
126	The Structure and Bonding of Au ₂₅ (SR) ₁₈ Nanoclusters from EXAFS: The Interplay of Metallic and Molecular Behavior. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15282-15287	3.8	103
125	Dopant Location, Local Structure, and Electronic Properties of Au ₂₄ Pt(SR) ₁₈ Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26932-26937	3.8	97
124	Luminescent Gold Nanoparticles with Size-Independent Emission. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8894-8	16.4	89
123	Site-Specific and Size-Dependent Bonding of Compositionally Precise Gold-thiolate Nanoparticles from X-ray Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1821-1825	6.4	82
122	Collective excitation of plasmon-coupled Au-nanochain boosts photocatalytic hydrogen evolution of semiconductor. <i>Nature Communications</i> , 2019 , 10, 4912	17.4	80
121	Structural and electronic properties of protein/thiolate-protected gold nanocluster with "staple" motif: A XAS, L-DOS, and XPS study. <i>Journal of Chemical Physics</i> , 2009 , 131, 214703	3.9	72
120	A highly active, stable and synergistic Pt nanoparticles/Mo ₂ C nanotube catalyst for methanol electro-oxidation. <i>NPG Asia Materials</i> , 2015 , 7, e153-e153	10.3	71
119	Single-atom alloy catalysts: structural analysis, electronic properties and catalytic activities. <i>Chemical Society Reviews</i> , 2021 , 50, 569-588	58.5	71
118	Electro-Oxidation of Ni ₄₂ Steel: A Highly Active Bifunctional Electrocatalyst. <i>Advanced Functional Materials</i> , 2016 , 26, 6402-6417	15.6	67
117	X ₂₀ CoCrWMo ₁₀₋₉ //Co ₃ O ₄ : a metal-ceramic composite with unique efficiency values for water-splitting in the neutral regime. <i>Energy and Environmental Science</i> , 2016 , 9, 2609-2622	35.4	66
116	Novel nanoporous N-doped carbon-supported ultrasmall Pd nanoparticles: Efficient catalysts for hydrogen storage and release. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 820-828	21.8	64

115	Fe-N bonding in a carbon nanotube-graphene complex for oxygen reduction: an XAS study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15787-91	3.6	64
114	Water as the Key to Proto-Aragonite Amorphous CaCO ₃ . <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8117-20	16.4	63
113	Computationally aided, entropy-driven synthesis of highly efficient and durable multi-elemental alloy catalysts. <i>Science Advances</i> , 2020 , 6, eaaz0510	14.3	60
112	Tailoring Surface Frustrated Lewis Pairs of InO (OH) for Gas-Phase Heterogeneous Photocatalytic Reduction of CO by Isomorphous Substitution of In with Bi. <i>Advanced Science</i> , 2018 , 5, 1700732	13.6	60
111	Size Effects of Platinum Colloid Particles on the Structure and CO Oxidation Properties of Supported Pt/Fe ₂ O ₃ Catalysts. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 21254-21262	3.8	59
110	Photothermal Catalyst Engineering: Hydrogenation of Gaseous CO with High Activity and Tailored Selectivity. <i>Advanced Science</i> , 2017 , 4, 1700252	13.6	59
109	A Segregated, Partially Oxidized, and Compact Ag ₁₀ Cluster within an Encapsulating DNA Host. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3469-77	16.4	58
108	Structure and formation of highly luminescent protein-stabilized gold clusters. <i>Chemical Science</i> , 2018 , 9, 2782-2790	9.4	57
107	Energy Migration Upconversion in Manganese(II)-Doped Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13312-7	16.4	57
106	Molecular-Scale Ligand Effects in Small Gold-Thiolate Nanoclusters. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15430-15436	16.4	56
105	Amorphous carbon nanowires investigated by near-edge-x-ray-absorption-fine-structures. <i>Applied Physics Letters</i> , 2001 , 79, 3773-3775	3.4	55
104	A vicinal effect for promoting catalysis of Pd ₁ /TiO ₂ : supports of atomically dispersed catalysts play more roles than simply serving as ligands. <i>Science Bulletin</i> , 2018 , 63, 675-682	10.6	54
103	Solution-Phase Structure and Bonding of Au ₃₈ (SR) ₂₄ Nanoclusters from X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 65-69	3.8	53
102	The surface structure of silver-coated gold nanocrystals and its influence on shape control. <i>Nature Communications</i> , 2015 , 6, 7664	17.4	50
101	Ultrathin Bi ₂ S ₃ nanowires: surface and core structure at the cluster-nanocrystal transition. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9058-68	16.4	50
100	Towards enhancing photocatalytic hydrogen generation: Which is more important, alloy synergistic effect or plasmonic effect?. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 77-85	21.8	49
99	In Situ Electrochemical XAFS Studies on an Iron Fluoride High-Capacity Cathode Material for Rechargeable Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11498-11505	3.8	45
98	Disordered amorphous calcium carbonate from direct precipitation. <i>CrystEngComm</i> , 2015 , 17, 4842-4849	3.3	43

97	Tunable Bifunctional Activity of Mn Co O Nanocrystals Decorated on Carbon Nanotubes for Oxygen Electrocatalysis. <i>ChemSusChem</i> , 2018 , 11, 1295-1304	8.3	39
96	Impact of protecting ligands on surface structure and antibacterial activity of silver nanoparticles. <i>Langmuir</i> , 2015 , 31, 3745-52	4	39
95	Local structure of fluorescent platinum nanoclusters. <i>Nanoscale</i> , 2012 , 4, 4199-205	7.7	39
94	Unique Bonding Properties of the Au ₃₆ (SR) ₂₄ Nanocluster with FCC-Like Core. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3186-91	6.4	37
93	Surface Structure of Organosulfur Stabilized Silver Nanoparticles Studied with X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 23094-23101	3.8	35
92	Temperature-Dependent Structure and Electrochemical Behavior of RuO ₂ /Carbon Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 19117-19128	3.8	35
91	Organosulfur-functionalized Au, Pd, and Au-Pd nanoparticles on 1D silicon nanowire substrates: preparation and XAFS studies. <i>Langmuir</i> , 2005 , 21, 8502-8	4	35
90	Cation Exchange of Anisotropic-Shaped Magnetite Nanoparticles Generates High-Relaxivity Contrast Agents for Liver Tumor Imaging. <i>Chemistry of Materials</i> , 2016 , 28, 3497-3506	9.6	35
89	Correlating the Atomic Structure of Bimetallic Silver-Gold Nanoparticles to Their Antibacterial and Cytotoxic Activities. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7472-7482	3.8	34
88	Description and Role of Bimetallic Prenucleation Species in the Formation of Small Nanoparticle Alloys. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15852-8	16.4	33
87	Local Structure, Electronic Behavior, and Electrocatalytic Reactivity of CO-Reduced Platinum-Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26324-26333	3.8	33
86	On the functional role of the cerium oxide support in the Au ₃₈ (SR) ₂₄ /CeO ₂ catalyst for CO oxidation. <i>Catalysis Today</i> , 2017 , 280, 239-245	5.3	32
85	Photovoltaic Properties of Polymer/Fe ₂ O ₃ /Polymer Heterostructured Microspheres. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 2329-2332	3.4	32
84	Anisotropic Strain Tuning of L1 Ternary Nanoparticles for Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19209-19216	16.4	32
83	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. <i>Nature Communications</i> , 2019 , 10, 4472	17.4	31
82	Distinct Short-Range Order Is Inherent to Small Amorphous Calcium Carbonate Clusters (. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12206-9	16.4	31
81	Sensitivity of Structural and Electronic Properties of Gold-Thiolate Nanoclusters to the Atomic Composition: A Comparative X-ray Study of Au ₁₉ (SR) ₁₃ and Au ₂₅ (SR) ₁₈ . <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25137-25142	3.8	30
80	Nanostructured CdS prepared on porous silicon substrate: Structure, electronic, and optical properties. <i>Journal of Applied Physics</i> , 2002 , 91, 6038-6043	2.5	30

79	Extreme mixing in nanoscale transition metal alloys. <i>Matter</i> , 2021 , 4, 2340-2353	12.7	30
78	Role of Au ₄ Units on the Electronic and Bonding Properties of Au ₂₈ (SR) ₂₀ Nanoclusters from X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1217-1223	3.8	28
77	X-ray spectroscopy studies on the surface structural characteristics and electronic properties of platinum nanoparticles. <i>Journal of Chemical Physics</i> , 2009 , 131, 244716	3.9	27
76	Influence of sample oxidation on the nature of optical luminescence from porous silicon. <i>Applied Physics Letters</i> , 2000 , 77, 498-500	3.4	27
75	Bonding properties of thiolate-protected gold nanoclusters and structural analogs from X-ray absorption spectroscopy. <i>Nanotechnology Reviews</i> , 2015 , 4,	6.3	26
74	Structurally Disordered Phosphorus-Doped Pt as a Highly Active Electrocatalyst for an Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2021 , 11, 355-363	13.1	25
73	X-ray absorption fine structure and electron energy loss spectroscopy study of silicon nanowires at the Si L _{3,2} edge. <i>Journal of Applied Physics</i> , 2001 , 90, 6379-6383	2.5	24
72	Copper Phosphate as a Cathode Material for Rechargeable Li Batteries and Its Electrochemical Reaction Mechanism. <i>Chemistry of Materials</i> , 2015 , 27, 5736-5744	9.6	23
71	Single-Atom Catalysts Supported by Crystalline Porous Materials: Views from the Inside. <i>Advanced Materials</i> , 2020 , 32, e2002910	24	22
70	PdAu Alloy Nanoparticles for Ethanol Oxidation in Alkaline Conditions: Enhanced Activity and C ₁ Pathway Selectivity. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8701-8706	6.1	22
69	Surface structural characteristics and tunable electronic properties of wet-chemically prepared Pd nanoparticles. <i>Journal of Chemical Physics</i> , 2008 , 128, 154705	3.9	22
68	Ag Nanostructures on a Silicon Nanowire Template: Preparation and X-ray Absorption Fine Structure Study at the Si K-edge and Ag L _{3,2} -edge. <i>Chemistry of Materials</i> , 2002 , 14, 2519-2526	9.6	22
67	Fabrication of thiol-capped Pd nanoparticles: An electrochemical method. <i>Applied Physics Letters</i> , 2003 , 82, 1778-1780	3.4	22
66	X-ray excited optical luminescence (XEOL): a potential tool for OLED studies. <i>Thin Solid Films</i> , 2000 , 363, 318-321	2.2	22
65	Short-Range Structure of Amorphous Calcium Hydrogen Phosphate. <i>Crystal Growth and Design</i> , 2019 , 19, 3030-3038	3.5	21
64	Luminescent Au(I) Thiolate Complexes through Aggregation-Induced Emission: The Effect of pH during and Post Synthesis. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6010-6017	3.8	21
63	Electrochemical deposition and photovoltaic properties of Nano-Fe ₂ O ₃ -incorporated polypyrrole films. <i>Synthetic Metals</i> , 1997 , 84, 165-166	3.6	21
62	Semiconductor Growth and Junction Formation within Nano-Porous Oxides. <i>Physica Status Solidi A</i> , 2000 , 182, 157-162		21

61	X-ray excited optical luminescence studies of tris-(2,2Pbipyridine)ruthenium(II) at the C, N K-edge and Ru L3,2-edge. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8870-1	16.4	21
60	Reversible Control of Chemoselectivity in Au(SR) Nanocluster-Catalyzed Transfer Hydrogenation of Nitrobenzaldehyde Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 7173-7179	6.4	21
59	A DNA-Encapsulated and Fluorescent Ag ₁₀₆₊ Cluster with a Distinct Metal-Like Core. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14936-14945	3.8	20
58	An intrinsic dual-emitting gold thiolate coordination polymer, [Au(+I)(p-SPhCO ₂ H)] _n , for ratiometric temperature sensing. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9843-9848	7.1	20
57	Electron donation of non-oxide supports boosts O activation on nano-platinum catalysts. <i>Nature Communications</i> , 2021 , 12, 2741	17.4	19
56	Multichannel detection x-ray absorption near edge structures study on the structural characteristics of dendrimer-stabilized CdS quantum dots. <i>Journal of Applied Physics</i> , 2001 , 90, 2755-2759	3.5	18
55	Tailoring the local structure and electronic property of AuPd nanoparticles by selecting capping molecules. <i>Applied Physics Letters</i> , 2010 , 96, 043105	3.4	17
54	Electronic structure of molecular-capped gold nanoparticles from X-ray spectroscopy studies: Implications for coulomb blockade, luminescence and non-Fermi behavior. <i>Solid State Communications</i> , 2006 , 138, 553-557	1.6	17
53	Synergism of Iron and Platinum Species for Low-Temperature CO Oxidation: From Two-Dimensional Surface to Nanoparticle and Single-Atom Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2219-2229	6.4	16
52	Gold nanoparticles on titanium and interaction with prototype protein. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 146-55	5.4	16
51	Soft x-ray-excited luminescence and optical x-ray absorption fine structures of tris (8-hydroxyquinoline) aluminum. <i>Applied Physics Letters</i> , 2001 , 78, 1847-1849	3.4	16
50	Atomic Dispersion and Surface Enrichment of Palladium in Nitrogen-Doped Porous Carbon Cages Lead to High-Performance Electrocatalytic Reduction of Oxygen. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17641-17650	9.5	16
49	Soft x-ray excited optical luminescence: Some recent applications. <i>Review of Scientific Instruments</i> , 2002 , 73, 1379-1381	1.7	15
48	W-Doped TiO for photothermocatalytic CO reduction. <i>Nanoscale</i> , 2020 , 12, 17245-17252	7.7	15
47	Controlling the Morphology and Titanium Coordination States of TS-1 Zeolites by Crystal Growth Modifier. <i>Inorganic Chemistry</i> , 2020 , 59, 13201-13210	5.1	15
46	Versatile Ligand-Exchange Method for the Synthesis of Water-Soluble Monodisperse AuAg Nanoclusters for Cancer Therapy. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6773-6781	5.6	15
45	Impact of the Selenolate Ligand on the Bonding Behavior of Au ₂₅ Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21730-21737	3.8	13
44	Electrochemical route for the fabrication of alkanethiolate-capped gold nanoparticles. <i>Applied Physics Letters</i> , 2003 , 82, 1470-1472	3.4	13

- 43 Titanosilicate zeolite precursors for highly efficient oxidation reactions. *Chemical Science*, **2020**, 11, 12344-12349
- 42 X-ray Spectroscopy of Silver Nanostructures toward Antibacterial Applications. *Journal of Physical Chemistry C*, **2020**, 124, 4339-4351 3.8 12
- 41 Structure of Tiopronin-Protected Silver Nanoclusters in a One-Dimensional Assembly. *Journal of Physical Chemistry C*, **2015**, 119, 24627-24635 3.8 11
- 40 Gold-Manganese Oxide Core-Shell Nanoparticles Produced by Pulsed Laser Ablation in Water. *Journal of Physical Chemistry C*, **2016**, 120, 22635-22645 3.8 11
- 39 Self-assembly and chemical reactivity of alkenes on platinum nanoparticles. *Langmuir*, **2015**, 31, 522-8 4 10
- 38 Element-Specific Analysis of the Growth Mechanism, Local Structure, and Electronic Properties of Pt Clusters Formed on Ag Nanoparticle Surfaces. *Journal of Physical Chemistry C*, **2014**, 118, 21714-21721 3.8 10
- 37 Biomolecule-coated metal nanoparticles on titanium. *Langmuir*, **2012**, 28, 2979-85 4 10
- 36 Interactions between Ultrastable NaAg(SR) Nanoclusters and Coordinating Solvents: Uncovering the Atomic-Scale Mechanism. *ACS Nano*, **2020**, 14, 8433-8441 16.7 9
- 35 Chemical synthesis and structural studies of thiol-capped gold nanoparticles. *Canadian Journal of Chemistry*, **2009**, 87, 335-340 0.9 9
- 34 Zhang and Sham Reply:. *Physical Review Letters*, **2004**, 92, 7.4 9
- 33 X-ray absorption spectroscopy studies of local structure and electronic properties of $\text{Na}_x\text{Si}_{136}$ (0). *Physical Review B*, **2010**, 82, 3.3 8
- 32 Oxygen Reduction Reaction Catalyzed by Carbon-Supported Platinum Few-Atom Clusters: Significant Enhancement by Doping of Atomic Cobalt. *Research*, **2020**, 2020, 9167829 7.8 8
- 31 Interplay between Perovskite Magic-Sized Clusters and Amino Lead Halide Molecular Clusters. *Research*, **2021**, 2021, 6047971 7.8 8
- 30 Germanate with three-dimensional $12 \times 12 \times 1$ -ring channels solved by X-ray powder diffraction with charge-flipping algorithm. *Inorganic Chemistry*, **2013**, 52, 10238-44 5.1 7
- 29 A Comparative XAFS Study of Gold-thiolate Nanoparticles and Nanoclusters. *Journal of Physics: Conference Series*, **2013**, 430, 012029 0.3 7
- 28 Structural control of Au and AuPd nanoparticles by selecting capping ligands with varied electronic and steric effects. *Canadian Journal of Chemistry*, **2009**, 87, 1641-1649 0.9 7
- 27 A nanoparticulate polyacetylene-supported Pd(II) catalyst combining the advantages of homogeneous and heterogeneous catalysts. *Chinese Journal of Catalysis*, **2015**, 36, 1560-1572 11.3 6
- 26 Optoelectronic behavior of conjugated polymer/silicon heterojunctions. *Synthetic Metals*, **1997**, 85, 1293-1294 6

25	XANES studies of CdS nano-structures on porous silicon. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001 , 119, 229-233	1.7	6
24	Bonding properties of FCC-like Au ₄₄ (SR) ₂₈ clusters from X-ray absorption spectroscopy. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 1220-1224	0.9	5
23	Surface Reconstruction and Reactivity of Platinum-Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28861-28867	3.8	5
22	Multi-principal elemental intermetallic nanoparticles synthesized via a disorder-to-order transition.. <i>Science Advances</i> , 2022 , 8, eabm4322	14.3	5
21	Thiolate-Protected Single-Atom Alloy Nanoclusters: Correlation between Electronic Properties and Catalytic Activities. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001342	4.6	5
20	Core Geometry Effect on the Bonding Properties of Gold-Thiolate Nanoclusters: The Case of Hexagonal-Close-Packed Au ₃₀ (SR) ₁₈ . <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23414-23419	3.8	5
19	Sensitive X-ray Absorption Near Edge Structure Analysis on the Bonding Properties of Au(SR) Nanoclusters. <i>ACS Omega</i> , 2018 , 3, 14981-14985	3.9	5
18	Modification of surface morphology and optoelectronic response in porous Si films by electrochemical methods. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997 , 15, 1604		3
17	Trilayer Composite Poly(styrene/butyl acrylate/acrylic acid) Terpolymer Microspheres with Fe ₂ O ₃ Middle Layer: Synthesis and Characterization. <i>Polymer International</i> , 1997 , 43, 274-280	3.3	3
16	Horseradish Peroxidase-Catalyzed Preparation and Optoelectronic Property of Poly(1,5-dihydroxynaphthalene) Composite in Porous Silicon Nanohosta. <i>Annals of the New York Academy of Sciences</i> , 1998 , 864, 250-252	6.5	3
15	Thiolate-Protected Bimetallic Nanoclusters: Understanding the Relationship between Electronic and Catalytic Properties. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 257-275	6.4	3
14	New Insights on the Bonding Properties of BCC-like Au ₃₈ S ₂ (SR) ₂₀ Nanoclusters from X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22776-22782	3.8	3
13	A site-specific comparative study of Au ₁₀₂ and Au ₂₅ nanoclusters using theoretical EXAFS and l-DOS. <i>Canadian Journal of Chemistry</i> , 2015 , 93, 32-36	0.9	2
12	Peptide-directed preparation and X-ray structural study of Au nanoparticles on titanium surfaces. <i>Langmuir</i> , 2013 , 29, 4894-900	4	2
11	In situ X-ray Absorption Spectroscopy of Platinum Electrocatalysts. <i>Chemistry Methods</i> , 2021 , 1, 162-172		2
10	MnO ₂ /Fe ₂ O ₃ Nanocomposite Sorbent for Gas Capture. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6674-6682	5.6	2
9	The structure and bonding properties of tiopronin-protected silver nanoparticles as studied by X-ray absorption spectroscopy. <i>Canadian Journal of Chemistry</i> , 2018 , 96, 749-754	0.9	2
8	Acetylene-Mediated Synthesis of Supported Pt Nanocatalyst for Selective Hydrogenation of Halonitrobenzene. <i>ChemNanoMat</i> , 2018 , 4, 518-523	3.5	1

7	Reductive deposition of Rh nanostructures on n-type porous silicon: X-ray absorption and X-ray excited optical luminescence studies. <i>Langmuir</i> , 2004 , 20, 4690-5	4	1
6	Structure and Electronic Properties of Molecularly-capped Metal Nanoparticles: The effect of Nano-size, Metal Core and Capping Molecule Probed by X-ray Absorption Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 738, 1341		1
5	Surface photovoltage behavior of porous silicon modified with SO ₄ specimens. <i>Materials Chemistry and Physics</i> , 2000 , 63, 167-169	4.4	1
4	Site-Specific Electronic Properties of [Ag (SR)] Nanoclusters by X-Ray Spectroscopy. <i>Small</i> , 2021 , 17, e2005162	11	1
3	Ultrafast Preparation of Nonequilibrium FeNi Spinels by Magnetic Induction Heating for Unprecedented Oxygen Evolution Electrocatalysis. <i>Research</i> , 2022 , 2022, 1-13	7.8	1
2	Dynamic Structure of Metal Nanoclusters from Synchrotron X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 5982-5994	3.8	0
1	Heterostructure of silicon/organized-polymer-film with varied liquid crystalline states: a photovoltaic study. <i>Thin Solid Films</i> , 1998 , 327-329, 412-414	2.2	