Seiji Yamazoe

List of Publications by Citations

148 papers	4,041 citations	33 h-index	57 g-index
168 ext. papers	4,731 ext. citations	5.9 avg, IF	5.78 L-index

#	Paper	IF	Citations
148	Nonscalable oxidation catalysis of gold clusters. *Accounts of Chemical Research*, **2014**, 47, 816-24	24.3	449
147	A critical size for emergence of nonbulk electronic and geometric structures in dodecanethiolate-protected Au clusters. *Journal of the American Chemical Society*, **2015**, 137, 1206-12	16.4	271
146	Binding motif of terminal alkynes on gold clusters. *Journal of the American Chemical Society*, **2013**, 135, 9450-7	16.4	141
145	Thiolate-Mediated Selectivity Control in Aerobic Alcohol Oxidation by Porous Carbon-Supported Au25 Clusters. *ACS Catalysis*, **2014**, 4, 3696-3700	13.1	133
144	XAFS Study of Tungsten L1- and L3-Edges: Structural Analysis of WO3Species Loaded on TiO2as a Catalyst for Photo-oxidation of NH3. *Journal of Physical Chemistry C*, **2008**, 112, 6869-6879	3.8	132
143	Hierarchy of bond stiffnesses within icosahedral-based gold clusters protected by thiolates. *Nature Communications*, **2016**, 7, 10414	17.4	118
142	A new binding motif of sterically demanding thiolates on a gold cluster. *Journal of the American Chemical Society*, **2012**, 134, 14295-7	16.4	105
141	Phototunable diarylethene microcrystalline surfaces: lotus and petal effects upon wetting. *Angewandte Chemie - International Edition*, **2010**, 49, 5942-4	16.4	99
140	Preferential Location of Coinage Metal Dopants (M = Ag or Cu) in [Au25−xMx(SC2H4Ph)18]0 (x ~ 1) As Determined by Extended X-ray Absorption Fine Structure and Density Functional Theory Calculations. *Journal of Physical Chemistry C*, **2014**, 118, 25284-25290	3.8	80
139	Formation of a 12 Superatomic Core in Au24Pd1(SC12H25)18 Probed by 197Au Mössbauer and Pd K-Edge EXAFS Spectroscopy. *Journal of Physical Chemistry Letters*, **2013**, 4, 3579-3583	6.4	80
138	Single-atom Pt in intermetallics as an ultrastable and selective catalyst for propane dehydrogenation. *Nature Communications*, **2020**, 11, 2838	17.4	76
137	Dendrimer-Encapsulated Copper Cluster as a Chemoselective and Regenerable Hydrogenation Catalyst. *ACS Catalysis*, **2013**, 3, 182-185	13.1	69
136	Selenolate-Protected Au38 Nanoclusters: Isolation and Structural Characterization. *Journal of Physical Chemistry Letters*, **2013**, 4, 3181-3185	6.4	68
135	Surface plasmon resonance in gold ultrathin nanorods and nanowires. *Journal of the American Chemical Society*, **2014**, 136, 8489-91	16.4	64
134	Reversible photocontrol of surface wettability between hydrophilic and superhydrophobic surfaces on an asymmetric diarylethene solid surface. *Langmuir*, **2011**, 27, 6395-400	4	61
133	Mechanism of Photo-Oxidation of NH3over TiO2: Fourier Transform Infrared Study of the Intermediate Species. *Journal of Physical Chemistry C*, **2007**, 111, 11077-11085	3.8	61
132	Slow-Reduction Synthesis of a Thiolate-Protected One-Dimensional Gold Cluster Showing an Intense Near-Infrared Absorption. *Journal of the American Chemical Society*, **2015**, 137, 7027-30	16.4	56

131	Synthesis and Catalytic Application of Ag44 Clusters Supported on Mesoporous Carbon. *Journal of Physical Chemistry C*, **2015**, 119, 27483-27488	3.8	49
130	Au25 Clusters Containing Unoxidized Tellurolates in the Ligand Shell. *Journal of Physical Chemistry Letters*, **2014**, 5, 2072-6	6.4	46
129	Au25-Loaded BaLa4Ti4O15 Water-Splitting Photocatalyst with Enhanced Activity and Durability Produced Using New Chromium Oxide Shell Formation Method. *Journal of Physical Chemistry C*, **2018**, 122, 13669-13681	3.8	45
128	Visible Light Absorbed NH2 Species Derived from NH3 Adsorbed on TiO2 for Photoassisted Selective Catalytic Reduction. *Journal of Physical Chemistry C*, **2007**, 111, 14189-14197	3.8	45
127	Gold Ultrathin Nanorods with Controlled Aspect Ratios and Surface Modifications: Formation Mechanism and Localized Surface Plasmon Resonance. *Journal of the American Chemical Society*, **2018**, 140, 6640-6647	16.4	44
126	Tuning the electronic structure of thiolate-protected 25-atom clusters by co-substitution with metals having different preferential sites. *Dalton Transactions*, **2016**, 45, 18064-18068	4.3	41
125	Promotion effect of tungsten oxide on photo-assisted selective catalytic reduction of NO with NH3 over TiO2. *Applied Catalysis B: Environmental*, **2008**, 83, 123-130	21.8	41
124	A twisted bi-icosahedral Au(25) cluster enclosed by bulky arenethiolates. *Chemical Communications*, **2014**, 50, 839-41	5.8	40
123	Development of the efficient TiO2 photocatalyst in photoassisted selective catalytic reduction of NO with NH3. *Catalysis Today*, **2006**, 111, 266-270	5.3	40
122	Suppressing Isomerization of Phosphine-Protected Au Cluster by Bond Stiffening Induced by a Single Pd Atom Substitution. *Inorganic Chemistry*, **2017**, 56, 8319-8325	5.1	39
121	The effect of SrTiO3 substrate orientation on the surface morphology and ferroelectric properties of pulsed laser deposited NaNbO3 films. *Applied Physics Letters*, **2009**, 95, 062906	3.4	39
120	Atomic-Level Understanding of the Effect of Heteroatom Doping of the Cocatalyst on Water-Splitting Activity in AuPd or AuPt Alloy Cluster-Loaded BaLa4Ti4O15. *ACS Applied Energy Materials*, **2019**, 2, 4175-4187	6.1	37
119	Structural Analysis of Group V, VI, and VII Metal Compounds by XAFS. *Journal of Physical Chemistry C*, **2011**, 115, 23653-23663	3.8	35
118	In Situ Time-Resolved Energy-Dispersive XAFS Study on Photodeposition of Rh Particles on a TiO2 Photocatalyst. *Journal of Physical Chemistry C*, **2008**, 112, 8495-8498	3.8	35
117	A structural study of CuInSe compounds by x-ray absorption fine structure. *Journal of Materials Research*, **2011**, 26, 1504-1516	2.5	33
116	Photo-oxidation of NH3 over various TiO2. *Catalysis Today*, **2007**, 120, 220-225	5.3	33
115	Controlled Synthesis of Carbon-Supported Gold Clusters for Rational Catalyst Design. *Chemical Record*, **2016**, 16, 2338-2348	6.6	33
114	Anion photoelectron spectroscopy of free [Au(SCH)]. *Nanoscale*, **2017**, 9, 13409-13412	7.7	32

113	Photoinduced formation of superhydrophobic surface on which contact angle of a water droplet exceeds 170° by reversible topographical changes on a diarylethene microcrystalline surface. *Langmuir*, **2012**, 28, 17817-24	4	30
112	Ceria-supported ruthenium catalysts for the synthesis of indole via dehydrogenative N-heterocyclization. *Catalysis Science and Technology*, **2011**, 1, 1340	5.5	30
111	Dynamic Behavior of Rh Species in Rh/AlO Model Catalyst during Three-Way Catalytic Reaction: An Operando X-ray Absorption Spectroscopy Study. *Journal of the American Chemical Society*, **2018**, 140, 176-184	16.4	29
110	X-ray Absorption Spectroscopy on Atomically Precise Metal Clusters. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 193-204	5.1	28
109	An Au25(SR)18 Cluster with a Face-Centered Cubic Core. *Journal of Physical Chemistry C*, **2018**, 122, 13198-13204	3.8	28
108	Activation of Water-Splitting Photocatalysts by Loading with Ultrafine Rh-Cr Mixed-Oxide Cocatalyst Nanoparticles. *Angewandte Chemie - International Edition*, **2020**, 59, 7076-7082	16.4	27
107	Investigation of the formation process of photodeposited Rh nanoparticles on TiO2 by in situ time-resolved energy-dispersive XAFS analysis. *Langmuir*, **2010**, 26, 13907-12	4	27
106	Partially oxidized iridium clusters within dendrimers: size-controlled synthesis and selective hydrogenation of 2-nitrobenzaldehyde. *Nanoscale*, **2016**, 8, 11371-4	7.7	27
105	Synthesis of (Adamantylimido)vanadium(V) Dimethyl Complex Containing (2-Anilidomethyl)pyridine Ligand and Selected Reactions: Exploring the Oxidation State of the Catalytically Active Species in Ethylene Dimerization. *Organometallics*, **2017**, 36, 530-542	3.8	26
104	Photoinduced self-epitaxial crystal growth of a diarylethene derivative with antireflection moth-eye and superhydrophobic lotus effects. *Langmuir*, **2013**, 29, 8164-9	4	25
103	Laser beam scanning microscope and piezoresponse force microscope studies on domain structured in 001-, 110-, and 111-oriented NaNbO3 films. *Journal of Applied Physics*, **2012**, 112, 052007	2.5	23
102	Synthetic Mechanism of Perovskite-Type KNbO3 by Modified Solid-State Reaction Process. *Chemistry of Materials*, **2011**, 23, 4498-4504	9.6	23
101	Doping a Single Palladium Atom into Gold Superatoms Stabilized by PVP: Emergence of Hydrogenation Catalysis. *Topics in Catalysis*, **2018**, 61, 136-141	2.3	23
100	Prominent hydrogenation catalysis of a PVP-stabilized Au superatom provided by doping a single Rh atom. *Chemical Communications*, **2018**, 54, 5915-5918	5.8	23
99	Hydrogen-Mediated Electron Doping of Gold Clusters As Revealed by In Situ X-ray and UV-vis Absorption Spectroscopy. *Journal of Physical Chemistry Letters*, **2017**, 8, 2368-2372	6.4	22
98	Intermolecular Coupling of Alkynes with Acrylates by Recyclable Oxide-Supported Ruthenium Catalysts: Formation of Distorted Ruthenium(IV)-oxo Species on Ceria as a Key Precursor of Active Species. *Advanced Synthesis and Catalysis*, **2011**, 353, 2837-2843	5.6	22
97	Characterization of sulfated zirconia prepared using reference catalysts and application to several model reactions. *Applied Catalysis A: General*, **2009**, 360, 89-97	5.1	22
96	XAS Analysis of Reactions of (Arylimido)vanadium(V) Dichloride Complexes Containing Anionic NHC That Contains a Weakly Coordinating B(CF) Moiety (WCA-NHC) or Phenoxide Ligands with Al Alkyls: A Potential Ethylene Polymerization Catalyst with WCA-NHC Ligands. *ACS Omega*, **2019**, 4, 18833-18845	3.9	21

95	Synthesis and Structural Analysis of (Imido)vanadium Dichloride Complexes Containing 2-(2Benz-imidazolyl)pyridine Ligands: Effect of Al Cocatalyst for Efficient Ethylene (Co)polymerization. *ACS Omega*, **2017**, 2, 8660-8673	3.9	21
94	Observation of domain structure in 001 orientated NaNbO3 films deposited on (001)SrTiO3 substrates by laser beam scanning microscopy. *Applied Physics Letters*, **2010**, 96, 092901	3.4	21
93	In Situ Time-Resolved Energy-Dispersive XAFS Study on Reduction Behavior of Pt Supported on TiO2 and Al2O3. *Catalysis Letters*, **2009**, 131, 413-418	2.8	21
92	Kinetic study of photo-oxidation of NH3 over TiO2. *Applied Catalysis B: Environmental*, **2008**, 82, 67-76	21.8	21
91	xTunes: A new XAS processing tool for detailed and on-the-fly analysis. *Radiation Physics and Chemistry*, **2020**, 175, 108270	2.5	21
90	Repeated appearance and disappearance of localized surface plasmon resonance in 1.2 nm gold clusters induced by adsorption and desorption of hydrogen atoms. *Nanoscale*, **2016**, 8, 2544-7	7.7	20
89	Active, Selective, and Durable Catalyst for Alkane Dehydrogenation Based on a Well-Designed Trimetallic Alloy. *ACS Catalysis*, **2020**, 10, 5163-5172	13.1	20
88	Rayleigh Instability and Surfactant-Mediated Stabilization of Ultrathin Gold Nanorods. *Journal of Physical Chemistry C*, **2016**, 120, 17006-17010	3.8	20
87	Air-Stable and Reusable Cobalt Phosphide Nanoalloy Catalyst for Selective Hydrogenation of Furfural Derivatives. *ACS Catalysis*, **2021**, 11, 750-757	13.1	20
86	Application of group V polyoxometalate as an efficient base catalyst: a case study of decaniobate clusters. *RSC Advances*, **2016**, 6, 16239-16242	3.7	18
85	Fabrication of Transparent Pb(Mg1/3Nb2/3)O3PbTiO3 Based Ceramics by Conventional Sintering. *Journal of the American Ceramic Society*, **2013**, 96, 3782-3787	3.8	18
84	Superior Base Catalysis of Group 5 Hexametalates [M6O19]8(M = Ta, Nb) over Group 6 Hexametalates [M6O19]2(M = Mo, W). *Journal of Physical Chemistry C*, **2018**, 122, 29398-29404	3.8	18
83	Selective Hydrogenation of Nitroaromatics by Colloidal Iridium Nanoparticles. *Chemistry Letters*, **2013**, 42, 1023-1025	1.7	17
82	Ferroelectric Properties of (Na0.5K0.5)NbO3-Based Thin Films Deposited on Pt/(001)MgO Substrate by Pulsed Laser Deposition with NaNbO3Buffer Layer. *Japanese Journal of Applied Physics*, **2009**, 48, 09KA13	1.4	17
81	Metal oxide promoted TiO2 catalysts for photo-assisted selective catalytic reduction of NO with NH3. *Research on Chemical Intermediates*, **2008**, 34, 487-494	2.8	17
80	Creation of High-Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster. *Angewandte Chemie - International Edition*, **2021**, 60, 21340-21350	16.4	17
79	Surface Modification of PdZn Nanoparticles via Galvanic Replacement for the Selective Hydrogenation of Terminal Alkynes. *ACS Applied Nano Materials*, **2019**, 2, 3307-3314	5.6	16
78	Photoinduced cytotoxicity of a photochromic diarylethene via caspase cascade activation. *Chemical Communications*, **2015**, 51, 10957-60	5.8	15

77	Ferroelectric Properties of (Na0.5K0.5)NbO3BaZrO3(Bi0.5Li0.5)TiO3Thin Films Deposited on Pt/(001)MgO Substrate by Pulsed Laser Deposition. *Japanese Journal of Applied Physics*, **2010**, 49, 09MA06	1.4	15
76	Selective and High-Yield Synthesis of Oblate Superatom [PdAu8(PPh3)8]2+. *ChemElectroChem*, **2016**, 3, 1206-1211	4.3	15
75	Lewis Base Catalytic Properties of [Nb O] for CO Fixation to Epoxide: Kinetic and Theoretical Studies. *Chemistry - an Asian Journal*, **2017**, 12, 1635-1640	4.5	14
74	Monodisperse Iridium Clusters Protected by Phenylacetylene: Implication for Size-Dependent Evolution of Binding Sites. *Journal of Physical Chemistry C*, **2017**, 121, 10936-10941	3.8	14
73	Selective Hydrogenation of 4-Nitrobenzaldehyde to 4-Aminobenzaldehyde by Colloidal RhCu Bimetallic Nanoparticles. *Topics in Catalysis*, **2014**, 57, 1049-1053	2.3	14
72	Fabrication of Lead-Free (Na0.52K0.44Li0.04)(Nb0.84Ta0.10Sb0.06)O3Piezoelectric Ceramics by a Modified Solid-State Reaction Method. *Japanese Journal of Applied Physics*, **2009**, 48, 091402	1.4	14
71	Solution XAS Analysis for Exploring the Active Species in Homogeneous Vanadium Complex Catalysis. *Journal of the Physical Society of Japan*, **2018**, 87, 061014	1.5	13
70	Electron Microscopic Observation of an Icosahedral Au13 Core in Au25(SePh)18 and Reversible Isomerization between Icosahedral and Face-Centered Cubic Cores in Au144(SC2H4Ph)60. *Journal of Physical Chemistry C*, **2020**, 124, 6907-6912	3.8	12
69	The electrooxidation-induced structural changes of gold di-superatomic molecules: Au23vs. Au25. *Physical Chemistry Chemical Physics*, **2016**, 18, 4822-7	3.6	12
68	Structural and Optical Properties of In-Free Cu$_{2}$ZnSn(S,Se)$_{4}$ Solar Cell Materials. *Japanese Journal of Applied Physics*, **2012**, 51, 10NC29	1.4	12
67	Ferroelectric and antiferroelectric properties of AgNbO3 films fabricated on (001), (110), and (111)SrTiO3 substrates by pulsed laser deposition. *Applied Physics Letters*, **2010**, 97, 042901	3.4	12
66	Structural Study of Cu-Deficient Cu2(1-x)ZnSnSe4Solar Cell Materials by X-ray Diffraction and X-ray Absorption Fine Structure. *Japanese Journal of Applied Physics*, **2012**, 51, 10NC28	1.4	12
65	Halogen adsorbates on polymer-stabilized gold clusters: Mass spectrometric detection and effects on catalysis. *Chinese Journal of Catalysis*, **2016**, 37, 1656-1661	11.3	11
64	Solution XAS Analysis for Exploring Active Species in Syndiospecific Styrene Polymerization and 1-Hexene Polymerization Using Half-TitanoceneMAO Catalysts: Significant Changes in the Oxidation State in the Presence of Styrene. *Organometallics*, **2019**, 38, 4497-4507	3.8	11
63	Needle-like NaNbO3 Synthesis via Nb6O198Cluster Using Na3NbO4 Precursor by DissolutionPrecipitation Method. *Chemistry Letters*, **2013**, 42, 380-382	1.7	11
62	Alumina-supported Pt17 cluster: controlled loading, geometrical structure, and size-specific catalytic activity for carbon monoxide and propylene oxidation. *Nanoscale Advances*, **2020**, 2, 669-678	5.1	11
61	Air-stable and reusable nickel phosphide nanoparticle catalyst for the highly selective hydrogenation of D-glucose to D-sorbitol. *Green Chemistry*, **2021**, 23, 2010-2016	10	11
60	Photoinduced topographical changes on microcrystalline surfaces of diarylethenes. *CrystEngComm*, **2016**, 18, 7229-7235	3.3	10

59	Fabrication of lead-free piezoelectric NaNbO3 ceramics at low temperature using NaNbO3 nanoparticles synthesized by solvothermal method. *Journal of the Ceramic Society of Japan*, **2013**, 121, 116-119	1	10
58	Temperature dependence of the photoinduced micro-crystalline surface topography of a diarylethene. *CrystEngComm*, **2013**, 15, 8400	3.3	9
57	A gold superatom with 10 electrons in Au13(PPh3)8(p-SC6H4CO2H)3. *APL Materials*, **2017**, 5, 053402	5.7	9
56	Photoinduced Reversible Heteroepitaxial Microcrystal Growth of a Photochromic Diarylethene on (110) Surface of SrTiO3. *Crystal Growth and Design*, **2012**, 12, 1464-1468	3.5	9
55	Wide band gap and p-type conductive CuNbO films. *Physica Status Solidi - Rapid Research Letters*, **2011**, 5, 153-155	2.5	9
54	Preparation of needle-like NaNbO3 by molten NaOH method. *Journal of the Ceramic Society of Japan*, **2010**, 118, 741-744	1	9
53	Nickel phosphide nanoalloy catalyst for the selective deoxygenation of sulfoxides to sulfides under ambient H pressure. *Organic and Biomolecular Chemistry*, **2020**, 18, 8827-8833	3.9	9
52	Methane coupling and hydrogen evolution induced by palladium-loaded gallium oxide photocatalysts in the presence of water vapor. *Journal of Catalysis*, **2021**, 397, 192-200	7.3	9
51	Solution XAS Analysis of Various (Imido)vanadium(V) Dichloride Complexes Containing Monodentate Anionic Ancillary Donor Ligands: Effect of Aluminium Cocatalyst in Ethylene/Norbornene (Co)polymerization. *Journal of the Japan Petroleum Institute*, **2018**, 61, 282-287	1	9
50	Self-activated Rh-Zr mixed oxide as a nonhazardous cocatalyst for photocatalytic hydrogen evolution. *Chemical Science*, **2020**, 11, 6862-6867	9.4	8
49	Crystallographic and optical properties of CuInSe2ZnSe system. *Japanese Journal of Applied Physics*, **2014**, 53, 05FW07	1.4	8
48	Phase transition of ferroelectric (LixNa1)NbO3 films with 0 x 0.13 by applying an electric field. *Applied Physics Letters*, **2013**, 102, 112909	3.4	8
47	Ni P Nanoalloy as an Air-Stable and Versatile Hydrogenation Catalyst in Water: P-Alloying Strategy for Designing Smart Catalysts. *Chemistry - A European Journal*, **2021**, 27, 4439-4446	4.8	8
46	Ferroelectric properties of NaNbO3-BaTiO3 thin films deposited on SrRuO3/(001)SrTiO3 substrate by pulsed laser deposition. *Journal of the Ceramic Society of Japan*, **2009**, 117, 66-71	1	7
45	Phototunable Diarylethene Microcrystalline Surfaces: Lotus and Petal Effects upon Wetting. *Angewandte Chemie*, **2010**, 122, 6078-6080	3.6	7
44	Single-Crystal Cobalt Phosphide Nanorods as a High-Performance Catalyst for Reductive Amination of Carbonyl Compounds. *Jacs Au*, **2021**, 1, 501-507		7
43	A Molecular Hybrid of an Atomically Precise Silver Nanocluster and Polyoxometalates for H Cleavage into Protons and Electrons. *Angewandte Chemie - International Edition*, **2021**, 60, 16994-16998	16.4	7
42	Structural analysis of group V, VI, VII metal compounds by XAFS and DFT calculation. *Journal of Physics: Conference Series*, **2009**, 190, 012073	0.3	6

41	Wide Band Gap and p-Type Conductive BaCuSeF Thin Films Fabricated by Pulsed Laser Deposition. *Japanese Journal of Applied Physics*, **2012**, 51, 10NC40	1.4	6
40	Base Catalytic Activity of [Nb10O28]6−: Effect of Countercations. *Journal of Physical Chemistry C*, **2020**, 124, 10975-10980	3.8	5
39	The Effects of Charges at the N- and C-Termini of Short Peptides on Their Secondary and Self-assembled Structures. *Chemistry Letters*, **2012**, 41, 549-551	1.7	5
38	Direct observation of catalytically active species in reaction solution by X-ray absorption spectroscopy (XAS). *Japanese Journal of Applied Physics*, **2019**, 58, 100502	1.4	4
37	Fabrication of Lead-Free (Na$_{0.5}$K$_{0.5}$)NbO$_{3}$-BaZrO$_{3}$-(Bi$_{0.5}$Li$_{0.5}$)TiO$_{3}$ Ferroelectric Thin Films on (111)Pt/Ti/SiO$_{2}$/(100)Si Substrate by Pulsed Laser Deposition. *Japanese Journal of Applied Physics*, **2011**, 50, 09NA07	1.4	4
36	Structural Study of Cu-Deficient Cu$_{2(1-x)}$ZnSnSe$_{4}$ Solar Cell Materials by X-ray Diffraction and X-ray Absorption Fine Structure. *Japanese Journal of Applied Physics*, **2012**, 51, 10NC28	1.4	4
35	Synthesis of active, robust and cationic Au cluster catalysts on double metal hydroxide by long-term oxidative aging of Au(SR).. *Nanoscale*, **2022**,	7.7	4
34	Wide Band Gap and p-Type Conductive BaCuSeF Thin Films Fabricated by Pulsed Laser Deposition. *Japanese Journal of Applied Physics*, **2012**, 51, 10NC40	1.4	4
33	Identification of hydrogen species on Pt/Al2O3 by in situ inelastic neutron scattering and their reactivity with ethylene. *Catalysis Science and Technology*, **2021**, 11, 116-123	5.5	4
32	Simple and high-yield preparation of carbon-black-supported ~1 nm platinum nanoclusters and their oxygen reduction reactivity. *Nanoscale*, **2021**, 13, 14679-14687	7.7	4
31	Structural Model of Ultrathin Gold Nanorods Based on High-Resolution Transmission Electron Microscopy: Twinned 1D Oligomers of Cuboctahedrons. *Journal of Physical Chemistry C*, **2017**, 121, 10942-10947	3.8	3
30	CdTe quantum dots modified electrodes ITO-(Polycation/QDs) for carbon dioxide reduction to methanol. *Applied Surface Science*, **2020**, 509, 145386	6.7	3
29	Preparation of needle- and plate-like NaTaO3 by molten NaOH method. *Journal of the Ceramic Society of Japan*, **2013**, 121, 109-112	1	3
28	XAFS Study of Active Tungsten Species on WO3/TiO2 as a Catalyst for Photo-SCR. *AIP Conference Proceedings*, **2007**,	0	3
27	Support-Boosted Nickel Phosphide Nanoalloy Catalysis in the Selective Hydrogenation of Maltose to Maltitol. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 6347-6354	8.3	3
26	Silylene-Bridged Tetranuclear Palladium Cluster as a Catalyst for Hydrogenation of Alkenes and Alkynes. *ChemCatChem*, **2021**, 13, 169-173	5.2	3
25	Effect of Ligand on the Electronic State of Gold in Ligand-Protected Gold Clusters Elucidated by X-ray Absorption Spectroscopy. *Journal of Physical Chemistry C*, **2021**, 125, 3143-3149	3.8	3
24	Formation of Mixed-Valence Luminescent Silver Clusters via Cation-Coupled Electron-Transfer in a Redox-Active Ionic Crystal Based on a Dawson-type Polyoxometalate with Closed Pores. *European Journal of Inorganic Chemistry*, **2021**, 2021, 1531-1535	2.3	3

23	Activation of Water-Splitting Photocatalysts by Loading with Ultrafine RhCr Mixed-Oxide Cocatalyst Nanoparticles. *Angewandte Chemie*, **2020**, 132, 7142-7148	3.6	2
22	Fabrication of 100-Oriented (Na0.5K0.5)NbO3BaZrO3(Bi0.5Li0.5)TiO3Films on Si Substrate Using LaNiO3Layer. *Japanese Journal of Applied Physics*, **2012**, 51, 09LA06	1.4	2
21	CHAPTER 10:Metal Clusters in Catalysis. *RSC Smart Materials*, **2014**, 291-322	0.6	2
20	A nickel phosphide nanoalloy catalyst for the C-3 alkylation of oxindoles with alcohols. *Scientific Reports*, **2021**, 11, 10673	4.9	2
19	Base Catalysis of Sodium Salts of [Ta6NbxO19]8Mixed-Oxide Clusters. *Symmetry*, **2021**, 13, 1267	2.7	2
18	Creation of High-Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster. *Angewandte Chemie*, **2021**, 133, 21510-21520	3.6	2
17	Hydrotalcite-Supported Cobalt Phosphide Nanorods as a Highly Active and Reusable Heterogeneous Catalyst for Ammonia-Free Selective Hydrogenation of Nitriles to Primary Amines. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 11238-11246	8.3	2
16	Structural analysis of Cu(In,Ga)Se2 thin-films by depth-resolved XAFS. *Japanese Journal of Applied Physics*, **2019**, 58, 105502	1.4	1
15	Low-Temperature Synthesis of Perovskite-Type (Na,K)NbO3 through Nb6O198Clusters by DissolutionPrecipitation Method. *Bulletin of the Chemical Society of Japan*, **2014**, 87, 746-750	5.1	1
14	Laser scanning microscopy observation of domain switching in NaNbO3 epitaxial film **2013**,		1
13	Fabrication of (K,Na)NbO3 thin films on Si substrate by pulsed laser deposition **2011**,		1
12	Fabrication of Lead-Free (Na0.5K0.5)NbO3BaZrO3(Bi0.5Li0.5)TiO3Ferroelectric Thin Films on (111)Pt/Ti/SiO2/(100)Si Substrate by Pulsed Laser Deposition. *Japanese Journal of Applied Physics*, **2011**, 50, 09NA07	1.4	1
11	Synthesis and Structural Analysis of Four Coordinate (Arylimido)niobium(V) Dimethyl Complexes Containing Phenoxide Ligand: MAO-Free Ethylene Polymerization by the Cationic Nb(V)Methyl Complex. *Organometallics*, **2020**, 39, 3742-3758	3.8	1
10	A Molecular Hybrid of an Atomically Precise Silver Nanocluster and Polyoxometalates for H2 Cleavage into Protons and Electrons. *Angewandte Chemie*, **2021**, 133, 17131-17135	3.6	1
9	Autopolymerization of 2-bromo-3-methoxythiophene, analysis of reaction products and estimation of polymer structure. *Polymer Journal*, **2021**, 53, 429-438	2.7	1
8	Hydrosilylation of carbonyls over electron-enriched Ni sites of intermetallic compound NiGa heterogeneous catalyst. *Chemical Communications*, **2021**, 57, 4239-4242	5.8	1
7	Inter-element miscibility driven stabilization of ordered pseudo-binary alloy.. *Nature Communications*, **2022**, 13, 1047	17.4	1
6	Selective and High-Yield Synthesis of Oblate Superatom [PdAu8(PPh3)8]2+. *ChemElectroChem*, **2016**, 3, 1190-1190	4.3	0

5	Structure–Stability Relationship of Amorphous IrO_2–Ta_2O_5 Electrocatalysts on Ti Felt for Oxygen Evolution in Sulfuric Acid. *Journal of Physical Chemistry C*, **2022**, 126, 1817-1827	3.8	0
4	Observation of Adsorbed Hydrogen Species on Supported Metal Catalysts by Inelastic Neutron Scattering. *Topics in Catalysis*, **2021**, 64, 660-671	2.3	0
3	Synthesis and Isolation of an Anionic Bis(dipyrido-annulated) N-Heterocyclic Carbene CCC-Pincer Iridium(III) Complex by Facile C-H Bond Activation. *Inorganic Chemistry*, **2021**, 60, 9970-9976	5.1	0
2	Thermal stability of crown-motif [Au(PPh)] and [MAu(PPh)] (M = Pd, Pt) clusters: Effects of gas composition, single-atom doping, and counter anions. *Journal of Chemical Physics*, **2021**, 155, 044307	3.9	0
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