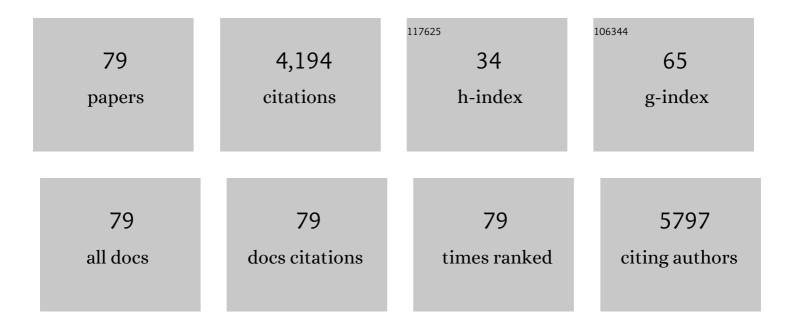
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Size Correlation of Optical and Spectroscopic Properties for Gold Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 14664-14669.	3.1	533
2	Characterization of Carbon-Supported AuPt Nanoparticles for Electrocatalytic Methanol Oxidation Reaction. Langmuir, 2006, 22, 2892-2898.	3.5	266
3	Iron oxide–gold core–shell nanoparticles and thin film assembly. Journal of Materials Chemistry, 2005, 15, 1821.	6.7	211
4	Nanoscale Alloying, Phase-Segregation, and Coreâ^'Shell Evolution of Goldâ^'Platinum Nanoparticles and Their Electrocatalytic Effect on Oxygen Reduction Reaction. Chemistry of Materials, 2010, 22, 4282-4294.	6.7	205
5	Core@shell nanomaterials: gold-coated magnetic oxide nanoparticles. Journal of Materials Chemistry, 2008, 18, 2629.	6.7	187
6	Gold–platinum alloy nanoparticle assembly as catalyst for methanol electrooxidation. Chemical Communications, 2001, , 473-474.	4.1	167
7	Fuel cell technology: nano-engineered multimetallic catalysts. Energy and Environmental Science, 2008, 1, 454.	30.8	144
8	Composition Tunability and (111)-Dominant Facets of Ultrathin Platinum–Gold Alloy Nanowires toward Enhanced Electrocatalysis. Journal of the American Chemical Society, 2016, 138, 12166-12175.	13.7	127
9	Gold-platinum nanoparticles: alloying and phase segregation. Journal of Materials Chemistry, 2011, 21, 4012-4020.	6.7	125
10	Novel Interparticle Spatial Properties of Hydrogen-Bonding Mediated Nanoparticle Assembly. Chemistry of Materials, 2003, 15, 29-37.	6.7	107
11	Origin of High Activity and Durability of Twisty Nanowire Alloy Catalysts under Oxygen Reduction and Fuel Cell Operating Conditions. Journal of the American Chemical Society, 2020, 142, 1287-1299.	13.7	102
12	Ternary alloy nanoparticles with controllable sizes and composition and electrocatalytic activity. Journal of Materials Chemistry, 2006, 16, 1665.	6.7	95
13	Thermal Treatment of PtNiCo Electrocatalysts: Effects of Nanoscale Strain and Structure on the Activity and Stability for the Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2010, 114, 17580-17590.	3.1	95
14	X-ray Photoelectron Spectroscopic Study of the Activation of Molecularly-Linked Gold Nanoparticle Catalysts. Langmuir, 2003, 19, 125-131.	3.5	93
15	Surface Enhanced Raman Scattering Detection of Cancer Biomarkers with Bifunctional Nanocomposite Probes. Analytical Chemistry, 2015, 87, 10698-10702.	6.5	90
16	Thermal Activation of Molecularly-Wired Gold Nanoparticles on a Substrate as Catalyst. Journal of the American Chemical Society, 2002, 124, 13988-13989.	13.7	82
17	Enhanced Oxygen Reduction Activity of Platinum Monolayer on Gold Nanoparticles. Journal of Physical Chemistry Letters, 2011, 2, 67-72.	4.6	80
18	From Ultrafine Thiolate-Capped Copper Nanoclusters toward Copper Sulfide Nanodiscs: A Thermally Activated Evolution Route. Chemistry of Materials, 2010, 22, 261-271.	6.7	77

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19	PdCu Nanoalloy Electrocatalysts in Oxygen Reduction Reaction: Role of Composition and Phase State in Catalytic Synergy. ACS Applied Materials & Interfaces, 2015, 7, 25906-25913.	8.0	75
20	Electrocatalytic reduction of oxygen: Gold and gold-platinum nanoparticle catalysts prepared by two-phase protocol. Gold Bulletin, 2004, 37, 217-223.	2.7	73
21	Synthesis, processing, assembly and activation of core-shell structured gold nanoparticle catalysts. Gold Bulletin, 2003, 36, 75-82.	2.7	70
22	Correlation between nanostructural parameters and conductivity properties for molecularly-mediated thin film assemblies of gold nanoparticles. Journal of Materials Chemistry, 2007, 17, 457-462.	6.7	69
23	Flexible chemiresistor sensors: thin film assemblies of nanoparticles on a polyethylene terephthalate substrate. Journal of Materials Chemistry, 2010, 20, 907-915.	6.7	64
24	Nanoalloy catalysts: structural and catalytic properties. Catalysis Science and Technology, 2014, 4, 3570-3588.	4.1	57
25	Understanding Composition-Dependent Synergy of PtPd Alloy Nanoparticles in Electrocatalytic Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2017, 121, 14128-14136.	3.1	56
26	Molecularly Tuned Size Selectivity in Thermal Processing of Gold Nanoparticles. Chemistry of Materials, 2006, 18, 5147-5149.	6.7	53
27	Revealing the Role of Phase Structures of Bimetallic Nanocatalysts in the Oxygen Reduction Reaction. ACS Catalysis, 2018, 8, 11302-11313.	11.2	51
28	Atomic Ordering Enhanced Electrocatalytic Activity of Nanoalloys for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2013, 117, 20715-20721.	3.1	45
29	Platinum–nickel nanowire catalysts with composition-tunable alloying and faceting for the oxygen reduction reaction. Journal of Materials Chemistry A, 2017, 5, 12557-12568.	10.3	45
30	Composition–Structure–Activity Relationships for Palladium-Alloyed Nanocatalysts in Oxygen Reduction Reaction: An Ex-Situ/In-Situ High Energy X-ray Diffraction Study. ACS Catalysis, 2015, 5, 5317-5327.	11.2	41
31	Nanoalloy Printed and Pulse-Laser Sintered Flexible Sensor Devices with Enhanced Stability and Materials Compatibility. ACS Nano, 2015, 9, 6168-6177.	14.6	40
32	Nanoparticle-Structured Highly Sensitive and Anisotropic Gauge Sensors. Small, 2015, 11, 4509-4516.	10.0	38
33	Multifunctional Fullerene-Mediated Assembly of Gold Nanoparticles. Chemistry of Materials, 2005, 17, 6528-6531.	6.7	37
34	Composition- and Structure-Tunable Gold–Cobalt Nanoparticles and Electrocatalytic Synergy for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2016, 8, 20082-20091.	8.0	36
35	Probing pH-Tuned Morphological Changes in Coreâ^'Shell Nanoparticle Assembly Using Atomic Force Microscopy. Nano Letters, 2001, 1, 575-579.	9.1	34
36	Flexibility characteristics of a polyethylene terephthalate chemiresistor coated with a nanoparticle thin film assembly. Journal of Materials Chemistry C, 2014, 2, 1893.	5.5	34

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37	Spectroscopic Characterizations of Molecularly Linked Gold Nanoparticle Assemblies upon Thermal Treatment. Langmuir, 2004, 20, 4254-4260.	3.5	32
38	Assembly of Bimetallic Goldâ ´´Silver Nanoparticles via Selective Interparticle Dicarboxylateâ ´´Silver Linkages. Chemistry of Materials, 2006, 18, 123-132.	6.7	32
39	Solving the nanostructure problem: exemplified on metallic alloy nanoparticles. Nanoscale, 2014, 6, 10048-10061.	5.6	32
40	Nanoalloy catalysts for electrochemical energy conversion and storage reactions. RSC Advances, 2014, 4, 42654-42669.	3.6	31
41	Preparation of PdCu Alloy Nanocatalysts for Nitrate Hydrogenation and Carbon Monoxide Oxidation. Catalysts, 2016, 6, 96.	3.5	31
42	Atomic Scale Imaging: A Hands-On Scanning Probe Microscopy Laboratory for Undergraduates. Journal of Chemical Education, 2003, 80, 194.	2.3	30
43	Structural dynamics and activity of nanocatalysts inside fuel cells by in operando atomic pair distribution studies. Nanoscale, 2016, 8, 10749-10767.	5.6	26
44	Nanoengineered PtVFe/C Cathode Electrocatalysts in PEM Fuel Cells: Catalyst Activity and Stability. ChemCatChem, 2011, 3, 583-593.	3.7	25
45	From a Au-rich core/PtNi-rich shell to a Ni-rich core/PtAu-rich shell: an effective thermochemical pathway to nanoengineering catalysts for fuel cells. Journal of Materials Chemistry A, 2018, 6, 5143-5155.	10.3	25
46	Surface oxygenation of multicomponent nanoparticles toward active and stable oxidation catalysts. Nature Communications, 2020, 11, 4201.	12.8	25
47	Probing interfacial interactions of bacteria on metal nanoparticles and substrates with different surface properties. International Journal of Antimicrobial Agents, 2010, 36, 549-556.	2.5	22
48	Chemical Analysis Using Scanning Force Microscopy. An Undergraduate Laboratory Experiment. Journal of Chemical Education, 2002, 79, 207.	2.3	21
49	Nanoparticle-Structured Ligand Framework as Electrode Interfaces. Electroanalysis, 2004, 16, 120-126.	2.9	20
50	Decoration of Nanofibrous Paper Chemiresistors with Dendronized Nanoparticles toward Structurally Tunable Negativeâ€Going Response Characteristics to Human Breathing and Sweating. Advanced Materials Interfaces, 2017, 4, 1700380.	3.7	15
51	Nanoalloying and phase transformations during thermal treatment of physical mixtures of Pd and Cu nanoparticles. Science and Technology of Advanced Materials, 2014, 15, 025002.	6.1	14
52	Charting the relationship between phase type-surface area-interactions between the constituent atoms and oxygen reduction activity of Pd–Cu nanocatalysts inside fuel cells by in operando high-energy X-ray diffraction. Journal of Materials Chemistry A, 2017, 5, 7355-7365.	10.3	14
53	SERS nanoprobes for bio-application. Frontiers of Chemical Science and Engineering, 2015, 9, 428-441.	4.4	13
54	Evolution of Active Sites in Pt-Based Nanoalloy Catalysts for the Oxidation of Carbonaceous Species by Combined in Situ Infrared Spectroscopy and Total X-ray Scattering. ACS Applied Materials & Interfaces, 2018, 10, 10870-10881.	8.0	12

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55	Catalytic oxidation of propane over palladium alloyed with gold: an assessment of the chemical and intermediate species. Catalysis Science and Technology, 2018, 8, 6228-6240.	4.1	12
56	Application of differential resonant high-energy X-ray diffraction to three-dimensional structure studies of nanosized materials: A case study of Pt–Pd nanoalloy catalysts. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, 553-566.	0.1	11
57	CO oxidation on supported platinum group metal (PGM) based nanoalloys. Science China Chemistry, 2015, 58, 14-28.	8.2	9
58	Nanoscale Alloying in Electrocatalysts. Catalysts, 2015, 5, 1465-1478.	3.5	6
59	Harnessing the interparticle J-aggregate induced plasmonic coupling for surface-enhanced Raman scattering. Physical Chemistry Chemical Physics, 2015, 17, 28529-28533.	2.8	6
60	Nanoparticle Based Printed Sensors on Paper for Detecting Chemical Species. , 2017, , .		6
61	Assessing Interparticle J-Aggregation of Two Different Cyanine Dyes with Gold Nanoparticles and Their Spectroscopic Characteristics. Journal of Physical Chemistry C, 2015, 119, 27786-27796.	3.1	5
62	Chemiresistive properties regulated by nanoscale curvature in molecularly-linked nanoparticle composite assembly. Nanoscale, 2017, 9, 4013-4023.	5.6	4
63	A Low-Current and Multi-Channel Chemiresistor Array Sensor Device. Sensors, 2022, 22, 2781.	3.8	3
64	Characterizations of Core-Shell Nanoparticle Catalysts for Methanol Electrooxidation. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	2
65	Biomolecular Recognition: Nanotransduction and Nanointervention. ACS Symposium Series, 2012, , 119-146.	0.5	2
66	Sensors: Nanoparticle-Structured Highly Sensitive and Anisotropic Gauge Sensors (Small 35/2015). Small, 2015, 11, 4508-4508.	10.0	2
67	Synthesis of Bimetallic AuPt Nanoparticles in Aqueous Solution and Electrocatalytic Activity. Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	1
68	Harvesting Nanocatalytic Heat Localized in Nanoalloy Catalyst as a Heat Source in a Nanocomposite Thin Film Thermoelectric Device. Langmuir, 2015, 31, 11158-11163.	3.5	1
69	Characterizations of Nanostructured Films as Responsive Electrode Materials. Materials Research Society Symposia Proceedings, 2001, 704, 9291.	0.1	0
70	Organic-Inorganic Network Assembles of Nanoparticles as Chemically Sensitive Interfacial Materials. Materials Research Society Symposia Proceedings, 2001, 710, 1.	0.1	0
71	Construction of Spherical Assembly of Gold Nanoparticles Using Tetra[(methylthio)methyl] silane as Ligand. Materials Research Society Symposia Proceedings, 2002, 739, 261.	0.1	0
72	Interfacial Ion Fluxes at Nanostructured Thin Films. Materials Research Society Symposia Proceedings, 2002, 752, 1.	0.1	0

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73	A Thermogravimetric Study of Alakanethiolate Monolayer-Capped Gold Nanoparticle Catalysts. Materials Research Society Symposia Proceedings, 2003, 789, 45.	0.1	0
74	Nanostructured Materials for Microfluidic Sensing Application. Materials Research Society Symposia Proceedings, 2003, 782, 1.	0.1	0
75	Synthesis of Monolayer-Capped GaAs Nanoparticles. Materials Research Society Symposia Proceedings, 2004, 828, 233.	0.1	0
76	Synthesis and Characterization of Magnetic Iron Oxide Nanoparticles. Materials Research Society Symposia Proceedings, 2004, 853, 37.	0.1	0
77	A Kinetic Study of Mediator-Template Assembly of Gold Nanoparticles. Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	0
78	Silica-Supported Au and Pt Nanoparticles and CO Adsorption. Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	0
79	Iron Oxide Composite Nanoparticles and Sensing Properties. Materials Research Society Symposia Proceedings, 2005, 900, 1.	0.1	0