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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.

102 papers	2,988 citations	30 h-index	51 g-index
106 ext. papers	3,210 ext. citations	6.7 avg, IF	5.26 L-index

#	Paper	IF	Citations
102	An NMR investigation of CO tolerance in a Pt/Ru fuel cell catalyst. <i>Journal of the American Chemical Society</i> , 2002 , 124, 468-73	16.4	311
101	Origin of the current peak of negative scan in the cyclic voltammetry of methanol electro-oxidation on Pt-based electrocatalysts: a revisit to the current ratio criterion. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5205		194
100	Methanol Electrooxidation on Platinum/Ruthenium Nanoparticle Catalysts. <i>Journal of Catalysis</i> , 2001 , 203, 1-6	7.3	175
99	Mechanistic insights into the Brust-Schiffrin two-phase synthesis of organo-chalcogenate-protected metal nanoparticles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2092-5	16.4	160
98	A coverage-dependent study of Pt spontaneously deposited onto Au and Ru surfaces: direct experimental evidence of the ensemble effect for methanol electro-oxidation on Pt. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 17775-80	3.4	109
97	Irrelevance of Carbon Monoxide Poisoning in the Methanol Oxidation Reaction on a PtRu Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9394-8	16.4	106
96	In Situ Infrared Study of Carbon Monoxide Adsorbed onto Commercial Fuel-Cell-Grade Carbon-Supported Platinum Nanoparticles: Correlation with ¹³ C NMR Results. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 5803-5807	3.4	67
95	Combined EC-NMR and In Situ FTIR Spectroscopic Studies of Glycerol Electrooxidation on Pt/C, PtRu/C, and PtRh/C. <i>ACS Catalysis</i> , 2016 , 6, 7686-7695	13.1	67
94	Characterization of protonic sites in H ₃ PW ₁₂ O ₄₀ and Cs _{1.9} H _{1.1} PW ₁₂ O ₄₀ : a solid-state ¹ H, ² H, ³¹ P MAS-NMR and inelastic neutron scattering study on samples prepared under standard reaction conditions. <i>Applied Catalysis A: General</i> , 2000 , 194-195, 109-122	5.1	60
93	Infrared reflection-absorption properties of platinum nanoparticle films on metal electrode substrates: control of anomalous optical effects. <i>Electrochemistry Communications</i> , 2001 , 3, 509-513	5.1	54
92	Unconventional promoters of catalytic activity in electrocatalysis. <i>Chemical Society Reviews</i> , 2012 , 41, 8195-209	58.5	52
91	Critical role of water and the structure of inverse micelles in the Brust-Schiffrin synthesis of metal nanoparticles. <i>Langmuir</i> , 2011 , 27, 7366-70	4	50
90	NMR of Electrocatalysts. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2434-2446	3.4	50
89	Nuclear Spin-Echo Fourier-Transform Mapping Spectroscopy for Broad NMR Lines in Solids. <i>Journal of Magnetic Resonance Series A</i> , 1996 , 119, 22-28		49
88	Shape and size stability of Pt nanoparticles for MeOH electro-oxidation. <i>Electrochimica Acta</i> , 2008 , 53, 6135-6142	6.7	47
87	An unexpected enhancement in methanol electro-oxidation on an ensemble of Pt(111) nanofacets: a case of nanoscale single crystal ensemble electrocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3712-21	3.6	47
86	Supported Aqueous-Phase Palladium Catalysts for the Reaction of Allylic Substitution: Toward an Understanding of the Catalytic System. <i>Organometallics</i> , 1998 , 17, 78-89	3.8	47

85	Ternary CoPtAu Nanoparticles as a General Catalyst for Highly Efficient Electro-oxidation of Liquid Fuels. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11527-11533	16.4	44
84	Charge Dependence of Surface Plasma Resonance on 2 nm Octanethiol-Protected Au Nanoparticles: Evidence of a Free-Electron System. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 19896-19900	16.4	44
83	¹³ C NMR spectroscopy of ¹³ C1-labeled octanethiol-protected Au nanoparticles: shifts, relaxations, and particle-size effect. <i>Journal of the American Chemical Society</i> , 2003 , 125, 18-9	16.4	44
82	Exploring electrochemical interfaces with solid-state NMR. <i>Analytical Chemistry</i> , 1998 , 70, 518A-527A	7.8	44
81	Infrared Spectral Comparison of Electrochemical Carbon Monoxide Adlayers Formed by Direct Chemisorption and Methanol Dissociation on Carbon-Supported Platinum Nanoparticles. <i>Langmuir</i> , 2002 , 18, 3233-3240	4	43
80	¹⁹⁵ Pt NMR of Polymer-Protected Pt/Pd Bimetallic Catalysts. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 730-733		43
79	¹³ C NMR and infrared evidence of a dioctyl-disulfide structure on octanethiol-protected palladium nanoparticle surfaces. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10053-8	16.4	40
78	Cyclic voltammetry and ¹⁹⁵ Pt nuclear magnetic resonance characterization of graphite-supported commercial fuel cell grade platinum electrocatalysts. <i>Electrochimica Acta</i> , 1998 , 43, 2825-2830	6.7	35
77	¹⁹⁵ Pt NMR of Platinum Electrocatalysts: Friedel-Weine Invariance and Correlations between Platinum Knight Shifts, Healing Length, and Adsorbate Electronegativity. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11921-11924	16.4	33
76	Capping polymer-enhanced electrocatalytic activity on Pt nanoparticles: a combined electrochemical and in situ IR spectroelectrochemical study. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7467-74	3.6	31
75	Electrocatalytic properties of Au@Pt nanoparticles: effects of Pt shell packing density and Au core size. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 11568-74	3.6	30
74	Identification of a source of size polydispersity and its solution in Brust-Schiffrin metal nanoparticle synthesis. <i>Chemical Communications</i> , 2011 , 47, 6033-5	5.8	30
73	Alkanetelluroxide-protected gold nanoparticles. <i>Langmuir</i> , 2008 , 24, 7048-53	4	30
72	Observation of selenium-77 nuclear magnetic resonance in octaneselenol-protected gold nanoparticles. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8112-3	16.4	30
71	Electrochemical and NMR characterization of octanethiol-protected Au nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 554-555, 127-132	4.1	30
70	Identification of the Most Active Sites and Surface Water Species: A Comparative Study of CO and Methanol Oxidation Reactions on Core/Shell (M = Ru, Au) Nanoparticles by in Situ IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8735-8743	3.8	29
69	Mechanistic insights on one-phase vs. two-phase Brust-Schiffrin method synthesis of Au nanoparticles with dioctyl-diselenides. <i>Chemical Communications</i> , 2012 , 48, 362-4	5.8	28
68	Different mechanisms govern the two-phase Brust-Schiffrin dialkylditelluride syntheses of Ag and Au nanoparticles. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1990-2	16.4	27

67	A volcano curve: optimizing methanol electro-oxidation on Pt-decorated Ru nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 8231-9	3.6	27
66	Interactions between Keggin-Type Lacunary Polyoxometalates and Ag Nanoparticles: A Surface-Enhanced Raman Scattering Spectroscopic Investigation. <i>Journal of Cluster Science</i> , 2006 , 17, 349-359	3	27
65	Nanostructured electrode surfaces studied by electrochemical NMR. <i>Journal of Electroanalytical Chemistry</i> , 2002 , 524-525, 157-167	4.1	27
64	Application of the condensed Fukui function to predict reactivity in core-shell transition metal nanoparticles. <i>Electrochimica Acta</i> , 2013 , 101, 334-340	6.7	25
63	Room-temperature and low-ordered, amphotropic-lyotropic ionic liquid crystal phases induced by alcohols in phosphonium halides. <i>Langmuir</i> , 2008 , 24, 9843-54	4	24
62	Polyoxometalate-stabilized Pt nanoparticles and their electrocatalytic activities. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7433-8	3.6	22
61	Surface attached manganese-oxo clusters as potential contrast agents. <i>Chemical Communications</i> , 2009 , 788-90	5.8	21
60	Mechanistic Insight into Sulfide-Enhanced Oxygen Reduction Reaction Activity and Stability of Commercial Pt Black: An in Situ Raman Spectroscopic Study. <i>ACS Catalysis</i> , 2016 , 6, 5000-5004	13.1	20
59	Irrelevance of Carbon Monoxide Poisoning in the Methanol Oxidation Reaction on a PtRu Electrocatalyst. <i>Angewandte Chemie</i> , 2015 , 127, 9526-9530	3.6	20
58	Electroless deposition of ultrathin Au film for surface enhanced in situ spectroelectrochemistry and reaction-driven surface reconstruction for oxygen reduction reaction. <i>Catalysis Today</i> , 2012 , 182, 46-53	5.3	20
57	Inverse-micelle-encapsulated water-enabled bond breaking of dialkyl diselenide/disulfide: a critical step for synthesizing high-quality gold nanoparticles. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17991-6	16.4	19
56	Mechanistic Insights on Sulfide-Adsorption Enhanced Activity of Methanol Electro-Oxidation on Pt Nanoparticles. <i>ACS Catalysis</i> , 2012 , 2, 168-174	13.1	17
55	Correlation between the Stretching Frequency of Carbon Monoxide Adsorbed and the Fermi Level Local Density of States at Surfaces of Platinum Catalysts. <i>Journal of the American Chemical Society</i> , 1997 , 119, 3929-3934	16.4	17
54	Electrochemical and in situ ATR-SEIRAS investigations of methanol and CO electro-oxidation on PVP-free cubic and octahedral/tetrahedral Pt nanoparticles. <i>RSC Advances</i> , 2014 , 4, 21284-21293	3.7	16
53	An in situ SERS investigation of the chemical states of sulfur species adsorbed onto Pt from different sulfur sources. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 662, 52-56	4.1	16
52	Indications from ¹⁹⁵ Pt NMR for a temperature-dependent metal-nonmetal transition of small platinum particles in zeolites. <i>Physical Review B</i> , 1995 , 52, 8407-8413	3.3	16
51	Spatially Resolved Electronic Alterations As Seen by in Situ ¹⁹⁵ Pt and ¹³ CO NMR in and Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26480-26486	3.8	15
50	Ternary CoPtAu Nanoparticles as a General Catalyst for Highly Efficient Electro-oxidation of Liquid Fuels. <i>Angewandte Chemie</i> , 2019 , 131, 11651-11657	3.6	14

49	On the chemistry of activation of a commercial carbon-supported PtRu electrocatalyst for the methanol oxidation reaction. <i>Chemical Communications</i> , 2014 , 50, 12963-5	5.8	14
48	Sulfide Adsorption-Enhanced Oxygen Reduction Reaction on Carbon-Supported Pt Electrocatalyst. <i>Electrocatalysis</i> , 2013 , 4, 117-122	2.7	14
47	Size-Dependent Methanol Electro-oxidation Activity of Pt Nanoparticles with Different Shapes. <i>Electrocatalysis</i> , 2011 , 2, 75-81	2.7	14
46	¹⁹⁵ Pt NMR observation of local density of states enhancement on alkali-promoted Pt catalyst surfaces. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, L533-L538	1.8	14
45	In situ electrochemical nuclear magnetic resonance spectroscopy for electrocatalysis: Challenges and prospects. <i>Current Opinion in Electrochemistry</i> , 2017 , 4, 60-68	7.2	13
44	Probing spatially-resolved Pt distribution in PtRu nanoparticles with ¹⁹⁵ Pt EC-NMR. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13806-7	16.4	13
43	Local metal to non-metal transition on oxygen-covered platinum particles from ¹⁹⁵ Pt nuclear magnetic resonance. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 2447-2459	1.8	13
42	Hydrogen Adsorption on Platinum Particles Studied by ¹⁹⁵ Pt NMR. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 11011-11014		13
41	Spectroscopic evidence of a bidentate-binding of meso-2,3-dimercaptosuccinic acid on silver nanoclusters. <i>Chemical Physics Letters</i> , 2011 , 509, 148-151	2.5	12
40	Diffusion on a nanoparticle surface as revealed by electrochemical NMR. <i>Faraday Discussions</i> , 2002 , 323-30; discussion 331-64	3.6	12
39	Electron microscopy and ¹⁹⁵ Pt nuclear magnetic resonance of platinum particles in a zeolite-Y matrix. <i>Surface Science</i> , 1993 , 292, 276-288	1.8	12
38	An in situ attenuated total reflection-surface enhanced infrared absorption spectroscopic study of enhanced methanol electro-oxidation activity on carbon-supported Pt nanoparticles by poly(vinylpyrrolidone) of different molecular weights. <i>Electrochimica Acta</i> , 2012 , 82, 543-549	6.7	11
37	Chemical state of adsorbed sulfur on Pt nanoparticles. <i>ChemPhysChem</i> , 2011 , 12, 747-52	3.2	11
36	Enhanced CO monolayer electro-oxidation reaction on sulfide-adsorbed Pt nanoparticles: A combined electrochemical and in situ ATR-SEIRAS spectroscopic study. <i>Catalysis Today</i> , 2013 , 202, 175-182	5.3	10
35	Tailoring the Frontier Orbitals at the Surfaces of Platinum Catalysts. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 10155-10158	3.4	10
34	Effect of surface-bound sulfide on oxygen reduction reaction on Pt: Breaking the scaling relationship and mechanistic insights. <i>Journal of Chemical Physics</i> , 2019 , 150, 041728	3.9	10
33	In Situ Stripline Electrochemical NMR for Batteries. <i>ChemElectroChem</i> , 2018 , 5, 2336-2340	4.3	9
32	In Situ FT-IR Investigation of Methanol and CO Electrooxidation on Cubic and Octahedral/Tetrahedral Pt Nanoparticles Having Residual PVP. <i>Electrocatalysis</i> , 2014 , 5, 248-255	2.7	9

31	An in-situ electrochemical IR investigation of solution CO electro-oxidation on a polycrystalline Au surface in an alkaline electrolyte: Identification of active reaction intermediates. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 800, 39-45	4.1	8
30	Interdigitated metal electrodes for high-resolution in situ electrochemical NMR. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 769, 1-4	4.1	8
29	Particle Size Limit for Concomitant Tuning of Size and Shape of Platinum Nanoparticles. <i>Journal of Cluster Science</i> , 2007 , 18, 773-780	3	8
28	Hydration process of beta-dicalcium silicate followed by MAS and CP/MAS nuclear magnetic resonance. <i>Cement and Concrete Research</i> , 1991 , 21, 355-358	10.3	8
27	Mechanistic Insights into Electro-Oxidation of Solution CO on the Polycrystalline Gold Surface as Seen by in Situ IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16132-16139	3.8	7
26	Evaluation of methods to predict reactivity of gold nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12858-64	3.6	7
25	Local quantum size effect as seen by room-temperature ¹⁹⁵ Pt NMR in octanethiol-protected Pt nanoparticles. <i>Chemical Physics Letters</i> , 2005 , 406, 137-142	2.5	7
24	Surfactant-Free One-Pot Synthesis of Homogeneous Trimetallic PtNiCu Nanoparticles with Size Control by Using Glycine. <i>Langmuir</i> , 2020 , 36, 5902-5907	4	6
23	Dual-Electrode In Situ Infrared Spectroscopy for Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H3038-H3042	3.9	6
22	Methanol and Ethanol Electrooxidation on PtRu and PtNiCu as Studied by High-Resolution In Situ Electrochemical NMR Spectroscopy with Interdigitated Electrodes. <i>Electrocatalysis</i> , 2017 , 8, 95-102	2.7	6
21	Comparison between the hydration processes of tricalcium silicate and beta-dicalcium silicate. <i>Cement and Concrete Research</i> , 1991 , 21, 509-514	10.3	6
20	CP/MAS NMR studies of the initial hydration processes of activated and ordinary beta-dicalcium silicates. <i>Cement and Concrete Research</i> , 1990 , 20, 986-991	10.3	6
19	A comparative in situ ¹⁹⁵ Pt electrochemical-NMR investigation of PtRu nanoparticles supported on diverse carbon nanomaterials. <i>Faraday Discussions</i> , 2008 , 140, 139-53; discussion 185-207	3.6	5
18	Spatially resolved ¹⁹⁵ Pt NMR of carbon-supported PtRu electrocatalysts: local electronic properties, elemental composition, and catalytic activity. <i>Journal of Chemical Physics</i> , 2008 , 128, 052311	3.9	5
17	NMR evidence of a spatially resolved oscillation in the EF-LDOS in a nanoscale platinum electrocatalyst. <i>Chemical Physics Letters</i> , 2002 , 361, 183-188	2.5	5
16	Origin of the Drastic Current Decay during Potentiostatic Alkaline Methanol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43535-43542	9.5	4
15	Electrochemical impedance spectroscopic measurement of potential of zero charge of octanethiolate-protected Au and Pd nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 688, 349-353	4.1	3
14	Measuring level alignment at the metal-molecule interface by in situ electrochemical (¹³ C) NMR. <i>ChemPhysChem</i> , 2015 , 16, 747-51	3.2	3

13	Inside Cover: Chemical State of Adsorbed Sulfur on Pt Nanoparticles (ChemPhysChem 4/2011). <i>ChemPhysChem</i> , 2011 , 12, 722-722	3.2	3
12	A Fast and Convenient One-Pot Synthesis of Dioctyldiselenide at Ambient Temperature and Atmosphere. <i>Synlett</i> , 2005 , 2005, 1618-1620	2.2	3
11	Electrochemical Energy Generation and Storage as Seen by In-Situ NMR 2017 , 331-363		2
10	Template-free cyclic hexavanadate: Synthesis, characterization, solid-state structure, and solution-state dynamics. <i>Polyhedron</i> , 2019 , 169, 266-277	2.7	2
9	Synthesis of Au and Ag nanoparticles with alkylselenocyanates. <i>RSC Advances</i> , 2012 , 2, 7396	3.7	2
8	Electronic Properties at a Metal-Solution Interface as Viewed by Solid-State NMR. <i>ACS Symposium Series</i> , 2001 , 26-39	0.4	2
7	Site-Dependent Spin Delocalization and Evidence of Ferrimagnetism in Atomically Precise Au(SR) Clusters as Seen by Solution C NMR Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 7464-7469	2.8	2
6	Dual-IR Window/Electrode Operando Attenuated Total Reflection-IR Absorption Spectroscopy for Battery Research. <i>Batteries and Supercaps</i> , 2019 , 2, 60-65	5.6	2
5	A versatile and robust surface-poison-resisting Scanning Amperometric Proton Microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 875, 113918	4.1	1
4	A self-promoting growth of Na microstructures. <i>Nature Nanotechnology</i> , 2020 , 15, 1-2	28.7	1
3	Advanced ¹³ C Nuclear Magnetic Resonance Investigation of Metal-Ligand Interactions in Monolayer-Protected Gold Nanoparticles: NMR Shifts and Relaxations. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 738, 821		
2	Inadequacy of a simple Curie-Weiss approximation for nuclear magnetic resonance in paramagnetic transition-metal oxides. <i>Chemical Communications</i> , 1996 , 2317-2317	5.8	
1	Integrated Studies of Au@Pt and Ru@Pt Core-Shell Nanoparticles by In Situ Electrochemical NMR, ATR-SEIRAS, and SERS. <i>Nanostructure Science and Technology</i> , 2016 , 225-251	0.9	