Jian-feng Li

List of PR Articles by Year in descending order

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312 PR articles	26,701 PR citations	5517 72 PR h-index	4553 153 g-index
332 documents	33528 doc citations	5765 78 h-index	24773 citing authors

#	Article	IF	PR Citations
1	Insights into plasmon-assisted chemical reactions: From fabrication to characterization. EScience, 2025, 5, 100312.	32.1	12
2	Enhanced photocatalytic hydrogen evolution over protonated g-C3N4 using NiCoP as a cocatalyst. International Journal of Hydrogen Energy, 2024, 51, 1145-1152.	9.1	38
3	Fabrication of Co2RuS6/CdS Z-scheme heterojunction with sulfur vacancy for enhanced piezo-photocatalytic H2 evolution and in-depth analysis of charge-separation mechanism. International Journal of Hydrogen Energy, 2024, 51, 1267-1276.	9.1	27
4	Site-selective sulfur anchoring produces sintering-resistant intermetallic ORR electrocatalysts for membrane electrode assemblies. Journal of Colloid and Interface Science, 2024, 660, 916-922.	9.9	3
5	Highly Stable Lithium Metal Batteries Enabled by Tuning the Molecular Polarity of Diluents in Localized Highâ€Concentration Electrolytes. Small, 2024, 20, .	11.6	14
6	Reliable quantitative detection of uric acid in urine by surface-enhanced Raman spectroscopy with endogenous internal standard. Biosensors and Bioelectronics, 2024, 251, 116101.	9.6	51
7	Experimental characterization technique to probe interfacial water. Journal of Catalysis, 2024, 430, 115355.	6.5	5
8	Photoelectrochemical-driven nitrogen reduction to ammonia by a V_o-SnO₂/TiO₂ composite electrode. Nanoscale, 2024, 16, 5706-5714.	5.0	6
9	Cation-Induced Interfacial Hydrophobic Microenvironment Promotes the Câ€“C Coupling in Electrochemical CO₂ Reduction. Journal of the American Chemical Society, 2024, 146, 5532-5542.	15.0	152
10	Enhancing Light Out-coupling in Perovskite Light-Emitting Diodes through Plasmonic Nanostructures. Nano Letters, 2024, 24, 2681-2688.	8.7	18
11	Understanding the Behaviors of Plasmon-Induced Hot Carriers and Their Applications in Photocatalysis. ACS Applied Materials & Interfaces, 2024, 16, 12149-12160.	8.0	14
12	SERS-Based Hydrogen Bonding Induction Strategy for Gaseous Acetic Acid Capture and Detection. Analytical Chemistry, 2024, 96, 4275-4281.	6.5	20
13	Classification of Fats and Oils Based on Raman Spectroscopy and Deep Learning. Journal of Computational Biophysics and Chemistry, 2024, 23, 753-764.	2.8	2
14	1Tâ€²-transition metal dichalcogenide monolayers stabilized on 4H-Au nanowires for ultrasensitive SERS detection. Nature Materials, 2024, 23, 1355-1362.	35.2	60
15	Nitrogen, Sulfur Co-doped Hollow Carbon-Encapsulated Cu/Co₂P for Selective Oxidation Esterification of Furfurals. ACS Catalysis, 2024, 14, 6565-6576.	12.4	11
16	Systematic Optimization of Universal Real-Time Hypersensitive Fast Detection Method for HBsAg in Serum Based on SERS. Analytical Chemistry, 2024, 96, 6784-6793.	6.5	12
17	In Situ Probing the Structure Change and Interaction of Interfacial Water and Hydroxyl Intermediates on Ni(OH)₂ Surface over Water Splitting. Journal of the American Chemical Society, 2024, 146, 12538-12546.	15.0	163
18	Sophisticated construction of single-atom cobalt catalyst based on microbial hyphae for high-performance hydrogenation. Chemical Engineering Journal, 2024, 490, 151678.	12.0	7

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19	Synergistic Effects of TiO₂ and Carbon Black for Water Evaporation-Induced Electricity Generation. ACS Applied Materials & Interfaces, 2024, 16, 24863-24870.	8.0	14
20	Synergistic Modulation of Multiple Sites Boosts Antiâ€Poisoning Hydrogen Electrooxidation Reaction with Ultrasmall (Pt_{0.9}Rh_{0.1})₃V Ternary Intermetallic Nanoparticles. Angewandte Chemie, 2024, 136, .	1.4	4
21	Synergistic Modulation of Multiple Sites Boosts Antiâ€Poisoning Hydrogen Electrooxidation Reaction with Ultrasmall (Pt_{0.9}Rh_{0.1})₃V Ternary Intermetallic Nanoparticles. Angewandte Chemie - International Edition, 2024, 63, .	14.4	13
22	Dynamic restructuring of nickel sulfides for electrocatalytic hydrogen evolution reaction. Nature Communications, 2024, 15, .	13.9	185
23	Optimizing interface concentration and electric fields for enhanced lithium deposition behavior in lithium metal anodes. Energy and Environmental Science, 2024, 17, 5993-6002.	30.9	34
24	Unraveling the energy storage mechanism in graphene-based nonaqueous electrochemical capacitors by gap-enhanced Raman spectroscopy. Nature Communications, 2024, 15, .	13.9	42
25	In situ Raman reveals the critical role of Pd in electrocatalytic CO2 reduction to CH4 on Cu-based catalysts. Journal of Chemical Physics, 2024, 161, .	2.8	8
26	In Situ Raman Spectroscopic Studies of Electrochemical CO₂ Reduction on Cu-Based Electrodes. Journal of Physical Chemistry C, 2024, 128, 11741-11755.	3.1	19
27	Electricity generated by upstream proton diffusion in two-dimensional nanochannels. Nature Nanotechnology, 2024, 19, 1316-1322.	33.5	55
28	Advancements in In Situ/Operando Characterization of Hydrogen Fuel Cells. Journal of Physical Chemistry C, 2024, 128, 12858-12872.	3.1	8
29	Understanding water-gas shift reaction mechanisms at palladiumâ€“ceria interfaces using in situ SERS coupled with online mass spectrometry. Journal of Materials Chemistry A, 2024, 12, 24278-24284.	9.3	3
30	Visualization of Electrooxidation on Palladium Single Crystal Surfaces via In Situ Raman Spectroscopy. Angewandte Chemie, 2024, 136, .	1.4	1
31	In situ/Operando Investigation for Heterogeneous Electro-Catalysts: From Model Catalysts to State-of-the-Art Catalysts. ACS Energy Letters, 2024, 9, 4414-4440.	17.0	54
32	Development of a 3D Hydrogel SERS Chip for Noninvasive, Real-Time pH and Glucose Monitoring in Sweat. ACS Applied Materials & Interfaces, 2024, 16, 48139-48146.	8.0	31
33	Construction of nickel and sulfur co-doped carbon nanotubes derived from hydrogen-bonded organic frameworks for efficient biomass electrooxidation. Journal of Materials Chemistry A, 2024, 12, 28853-28862.	9.3	4
34	The Loss of Interfacial Water-Adsorbate Hydrogen Bond Connectivity Position Surface-Active Hydrogen as a Crucial Intermediate to Enhance Nitrate Reduction Reaction. Journal of the American Chemical Society, 2024, 146, 26965-26974.	15.0	88
35	Natural Deep Eutectic Solvents as Absorbing Solution and Preparation Solvent of Perovskite Nanocrystals Simultaneously for CH₃I Gas Visual Sensing. Analytical Chemistry, 2024, 96, 15816-15823.	6.5	3
36	Impact of Surface Enhanced Raman Spectroscopy in Catalysis. ACS Nano, 2024, 18, 29337-29379.	15.3	46

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37	Design Strategies and inâ€‰situ Infrared, Raman, and Xâ€ray Absorption Spectroscopy Techniques Insight into the Electrocatalysts of Hydrogen Energy System. Small Structures, 2023, 4, .	11.1	20
38	Ultrasensitive detection of SARS-CoV-2 S protein with aptamers biosensor based on surface-enhanced Raman scattering. Journal of Chemical Physics, 2023, 158, .	2.8	14
39	In situ electrochemical Raman spectroscopy and ab initio molecular dynamics study of interfacial water on a single-crystal surface. Nature Protocols, 2023, 18, 883-901.	14.5	61
40	Constructing the V_o-TiO₂/Ag/TiO₂ Heterojunction for Efficient Photoelectrochemical Nitrogen Reduction to Ammonia. Journal of Physical Chemistry C, 2023, 127, 1345-1354.	3.1	17
41	Applications of In Situ Raman Spectroscopy on Rechargeable Batteries and Hydrogen Energy Systems. ChemElectroChem, 2023, 10, .	2.9	19
42	Graphene-Isolated Satellite Nanostructure Enhanced Raman Spectroscopy Reveals the Critical Role of Different Intermediates on the Oxygen Reduction Reaction. ACS Catalysis, 2023, 13, 849-855.	12.4	20
43	Gigahertz optoacoustic vibration in Sub-5â€‰nm tip-supported nano-optomechanical metasurface. Nature Communications, 2023, 14, .	13.9	14
44	Construction of donor-mediator-receptor heterojunctions: Ni₁₂P₅/In(OH)₃/CdIn₂S₄ ternary catalyst for photocatalytic hydrogen production. New Journal of Chemistry, 2023, 47, 5546-5554.	2.4	5
45	Zhang-Rice singlets state formed by two-step oxidation for triggering water oxidation under operando conditions. Nature Communications, 2023, 14, .	13.9	25
46	Rapid detection and whole class control of quinolone antibiotics in pork based on surfaceâ€enhancedÂRaman spectroscopy. Journal of Raman Spectroscopy, 2023, 54, 468-476.	1.9	12
47	Electrolyte effect for carbon dioxide reduction reaction on copper electrode interface: A DFT prediction. Journal of Chemical Physics, 2023, 158, .	2.8	8
48	Intelligent convolution neural network-assisted SERS to realize highly accurate identification of six pathogenic Vibrio. Chemical Communications, 2023, 59, 5779-5782.	3.4	10
49	Direct Sâ€“H Evidence Revealing the Photo-electrocatalytic Hydrogen Evolution Reaction Mechanism on CdS Using Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry Letters, 2023, 14, 4026-4032.	4.2	14
50	Understanding the origin of the improved sodium ion storage performance of the transition metal oxide@carbon nanocomposite anodes. Journal of Chemical Physics, 2023, 158, .	2.8	3
51	In Situ SERS Probing the Effect of Additional Metals on Pt-Based Ternary Alloys toward Improving ORR Performance. ACS Catalysis, 2023, 13, 6781-6786.	12.4	48
52	Shell-isolated nanoparticle-enhanced Raman spectroscopy. Nature Reviews Methods Primers, 2023, 3, .	51.0	53
53	Improving the Hydrogen Oxidation Reaction Rate of Ru by Active Hydrogen in the Ultrathin Pd Interlayer. Journal of the American Chemical Society, 2023, 145, 12717-12725.	15.0	85
54	Resolving nanostructure and chemistry of solid-electrolyte interphase on lithium anodes by depth-sensitive plasmon-enhanced Raman spectroscopy. Nature Communications, 2023, 14, .	13.9	101

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55	Metal-support interactions alter the active species on IrO_x for electrocatalytic water oxidation. Journal of Materials Chemistry A, 2023, 11, 15204-15210.	9.3	30
56	Characterizing surface-confined interfacial water at graphene surface by in situ Raman spectroscopy. Joule, 2023, 7, 1652-1662.	25.8	68
57	Palladium atomic layers coated on ultrafine gold nanowires boost oxygen reduction reaction. Journal of Colloid and Interface Science, 2023, 650, 1518-1524.	9.9	9
58	Driving Reactant Molecules to Plasmonic Active Sites Using Electric Field for Enhanced Catalytic Reaction. ACS Catalysis, 2023, 13, 12021-12029.	12.4	6
59	Revealing the role of interfacial water and key intermediates at ruthenium surfaces in the alkaline hydrogen evolution reaction. Nature Communications, 2023, 14, .	13.9	429
60	Amorphous Co_xS_y-loaded Mn_{0.5}Cd_{0.5}S solid solution for effective generation of H₂ by visible-light photocatalysis. New Journal of Chemistry, 2023, 47, 19617-19624.	2.4	2
61	Tailoring Fluorescenceâ€“Phosphorescence Emission with a Single Nanocavity. Journal of the American Chemical Society, 2023, 145, 20381-20388.	15.0	7
62	Early-Career and Emerging Researchers in Physical Chemistry Volume 2. Journal of Physical Chemistry B, 2023, 127, 9211-9214.	2.7	0
63	Early-Career and Emerging Researchers in Physical Chemistry Volume 2. Journal of Physical Chemistry A, 2023, 127, 8967-8970.	2.5	0
64	Early-Career and Emerging Researchers in Physical Chemistry Volume 2. Journal of Physical Chemistry C, 2023, 127, 20975-20978.	3.1	0
65	Confined-Enhanced Raman Spectroscopy. Nano Letters, 2023, 23, 11771-11777.	8.7	23
66	In situ studies of energy-related electrochemical reactions using Raman and X-ray absorption spectroscopy. Chinese Journal of Catalysis, 2022, 43, 33-46.	16.4	62
67	In Situ Raman Probing of Hotâ€Electron Transfer at Goldâ€“Graphene Interfaces with Atomic Layer Accuracy. Angewandte Chemie - International Edition, 2022, 61, .	14.4	37
68	In Situ Raman Probing of Hotâ€Electron Transfer at Goldâ€“Graphene Interfaces with Atomic Layer Accuracy. Angewandte Chemie, 2022, 134, .	1.4	9
69	Investigating Why Sulfurization Can Greatly Improve Ethanol Selectivity for Carbon Dioxide Electroreduction. CCS Chemistry, 2022, 4, 3319-3328.	8.7	12
70	Unmasking the Critical Role of the Ordering Degree of Bimetallic Nanocatalysts on Oxygen Reduction Reaction by In Situ Raman Spectroscopy. Angewandte Chemie, 2022, 134, .	1.4	15
71	In situ Raman, FTIR, and XRD spectroscopic studies in fuel cells and rechargeable batteries. Nano Research, 2022, 16, 4855-4866.	8.6	55
72	Plasmonic Coreâ€“Shell Materials: Synthesis, Spectroscopic Characterization, and Photocatalytic Applications. Accounts of Materials Research, 2022, 3, 187-198.	12.4	28

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73	Unmasking the Critical Role of the Ordering Degree of Bimetallic Nanocatalysts on Oxygen Reduction Reaction by In Situ Raman Spectroscopy. Angewandte Chemie - International Edition, 2022, 61, .	14.4	49
74	Synthetic strategies of single-atoms catalysts and applications in electrocatalysis. Electrochimica Acta, 2022, 409, 139835.	5.3	17
75	The Journal of Physical Chemistry C Virtual Special Issue on â€œEnergy and Catalysis in Chinaâ€. Journal of Physical Chemistry C, 2022, 126, 2301-2306.	3.1	1
76	Exploring the Effect of Pd on the Oxygen Reduction Performance of Pt by In Situ Raman Spectroscopy. Analytical Chemistry, 2022, 94, 4779-4786.	6.5	39
77	Photoelectrocatalytic nitrogen fixation with Vo-BiOBr/TiO2 heterostructured photoelectrode as photocatalyst. International Journal of Hydrogen Energy, 2022, 47, 41553-41563.	9.1	25
78	Direct and Simultaneous Identification of Multiple Mitochondrial Reactive Oxygen Species in Living Cells Using a SERS Borrowing Strategy. Angewandte Chemie - International Edition, 2022, 61, .	14.4	40
79	Gap-mode plasmons at 2Ânm spatial-resolution under a graphene-mediated hot spot. Nano Today, 2022, 44, 101464.	10.0	14
80	Rapid and Simple Analysis of the Human Pepsin Secondary Structure Using a Portable Raman Spectrometer. Analytical Chemistry, 2022, 94, 1318-1324.	6.5	9
81	Label-free SERS strategy for rapid detection of capsaicin for identification of waste oils. Talanta, 2022, 245, 123488.	5.9	17
82	In situ Raman spectroscopy reveals the structure evolution and lattice oxygen reaction pathway induced by the crystallineâ€“amorphous heterojunction for water oxidation. Chemical Science, 2022, 13, 5639-5649.	7.1	64
83	Statistical Strategy for Quantitative Evaluation of Plasmon-Enhanced Spectroscopy. ACS Photonics, 2022, 9, 1733-1740.	6.0	6
84	Au@ZrO₂ coreâ€shell nanoparticles as a surfaceâ€enhanced Raman scattering substrate for organophosphorus compounds detection. Journal of Raman Spectroscopy, 2022, 53, 1386-1393.	1.9	14
85	Atomic overlayer of permeable microporous cuprous oxide on palladium promotes hydrogenation catalysis. Nature Communications, 2022, 13, .	13.9	60
86	Interfacial Electron Delocalization in Engineering Nanosized Anti-Perovskite Nitride for Efficient CO₂ Electroreduction. Chemistry of Materials, 2022, 34, 5607-5620.	6.7	21
87	Identification of a quasi-liquid phase at solidâ€“liquid interface. Nature Communications, 2022, 13, .	13.9	39
88	In Situ Probe of the Hydrogen Oxidation Reaction Intermediates on PtRu a Bimetallic Catalyst Surface by Coreâ€“Shell Nanoparticle-Enhanced Raman Spectroscopy. Nano Letters, 2022, 22, 5544-5552.	8.7	74
89	Direct identification of the carbonate intermediate during water-gas shift reaction at Pt-NiO interfaces using surface-enhanced Raman spectroscopy. Chinese Journal of Catalysis, 2022, 43, 2010-2016.	16.4	16
90	Self-Calibration 3D Hybrid SERS Substrate and Its Application in Quantitative Analysis. Analytical Chemistry, 2022, 94, 9578-9585.	6.5	42

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91	Potential-Driven Restructuring of Cu Single Atoms to Nanoparticles for Boosting the Electrochemical Reduction of Nitrate to Ammonia. Journal of the American Chemical Society, 2022, 144, 12062-12071.	15.0	567
92	Inhomogeneity of fluorescence lifetime and intensity in a plasmonic nanocavity. Nano Today, 2022, 45, 101548.	10.0	9
93	Manipulating the light-matter interactions in plasmonic nanocavities at 1â€‰nm spatial resolution. Light: Science and Applications, 2022, 11, .	20.0	53
94	Electrocatalyst with Dynamic Formation of the Dual-Active Site from the Dual Pathway Observed by In Situ Raman Spectroscopy. ACS Catalysis, 2022, 12, 10276-10284.	12.4	198
95	Shellâ€‐isolated Nanoparticleâ€‐Enhanced Electrochemiluminescence. Small, 2022, 18, .	11.6	14
96	Elucidating electrochemical CO₂ reduction reaction processes on Cu(hkl) single-crystal surfaces by in situ Raman spectroscopy. Energy and Environmental Science, 2022, 15, 3968-3977.	30.9	236
97	Exploring interfacial electrocatalytic reactions by shell-isolated nanoparticle-enhanced Raman spectroscopy. Current Opinion in Colloid and Interface Science, 2022, 61, 101622.	6.6	5
98	Ultrafast and field-based detection of methamphetamine in hair with Au nanocake-enhanced Raman spectroscopy. Analytica Chimica Acta, 2022, 1235, 340531.	5.8	18
99	Advanced plasmonic technologies for multi-scale biomedical imaging. Chemical Society Reviews, 2022, 51, 9445-9468.	37.8	58
100	Rapid Point-of-Care Assay by SERS Detection of SARS-CoV-2 Virus and Its Variants. Analytical Chemistry, 2022, 94, 17795-17802.	6.5	46
101	Quantitatively Revealing the Anomalous Enhancement in Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy Using Single-Nanoparticle Spectroscopy. ACS Nano, 2022, 16, 21388-21396.	15.3	13
102	In situ Raman spectroscopy reveals the mechanism of titanium substitution in P2â€“Na2/3Ni1/3Mn2/3O2: Cathode materials for sodium batteries. Journal of Energy Chemistry, 2021, 53, 323-328.	14.3	55
103	Grapheneâ€‐coated Au nanoparticleâ€‐enhanced Raman spectroscopy. Journal of Raman Spectroscopy, 2021, 52, 439-445.	1.9	22
104	Cobalt Single Atoms on Tetrapyridomacrocyclic Support for Efficient Peroxymonosulfate Activation. Environmental Science & Technology, 2021, 55, 1242-1250.	11.1	275
105	Spectroscopic Verification of Adsorbed Hydroxy Intermediates in the Bifunctional Mechanism of the Hydrogen Oxidation Reaction. Angewandte Chemie - International Edition, 2021, 60, 5708-5711.	14.4	151
106	Coreâ€“Shellâ€“Satellite Plasmonic Photocatalyst for Broad-Spectrum Photocatalytic Water Splitting. , 2021, 3, 69-76.		87
107	Spectroscopic Verification of Adsorbed Hydroxy Intermediates in the Bifunctional Mechanism of the Hydrogen Oxidation Reaction. Angewandte Chemie, 2021, 133, 5772-5775.	1.4	19
108	A New Approach for Quantitative Surfaceâ€‐Enhanced Raman Spectroscopy through the Kinetics of Chemisorption. Small Methods, 2021, 5, .	9.0	21

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109	Molecular Insight of the Critical Role of Ni in Pt-Based Nanocatalysts for Improving the Oxygen Reduction Reaction Probed Using an In Situ SERS Borrowing Strategy. Journal of the American Chemical Society, 2021, 143, 1318-1322.	15.0	172
110	Facile and Effective Positive Temperature Coefficient (PTC) Layer for Safer Lithium-Ion Batteries. Journal of Physical Chemistry C, 2021, 125, 1761-1766.	3.1	39
111	z-Piezo Pulse-Modulated STM Break Junction: Toward Single-Molecule Rectifiers with Dissimilar Metal Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 8656-8663.	8.0	29
112	Lithiophilic and Antioxidative Copper Current Collectors for Highly Stable Lithium Metal Batteries. Advanced Functional Materials, 2021, 31, .	17.0	75
113	What Structural Features Make Porous Carbons Work for Redox-Enhanced Electrochemical Capacitors? A Fundamental Investigation. ACS Energy Letters, 2021, 6, 854-861.	17.0	37
114	Case Report: Temozolomide Treatment of Refractory Prolactinoma Resistant to Dopamine Agonists. Frontiers in Endocrinology, 2021, 12, .	4.1	15
115	Probing Singleâ€Atom Catalysts and Catalytic Reaction Processes by Shellâ€Isolated Nanoparticleâ€Enhanced Raman Spectroscopy. Angewandte Chemie - International Edition, 2021, 60, 9306-9310.	14.4	68
116	Probing Singleâ€Atom Catalysts and Catalytic Reaction Processes by Shellâ€Isolated Nanoparticleâ€Enhanced Raman Spectroscopy. Angewandte Chemie, 2021, 133, 9392-9396.	1.4	9
117	A Novel Safety Design Strategy to Improve the Safety Performance of LIBs. Journal of Physical Chemistry C, 2021, 125, 6055-6060.	3.1	12
118	In Situ Surface-Enhanced Raman Spectroscopy Characterization of Electrocatalysis with Different Nanostructures. Annual Review of Physical Chemistry, 2021, 72, 331-351.	11.0	46
119	Boosting Photocatalytic Hydrogen Evolution Reaction Using Dual Plasmonic Antennas. ACS Catalysis, 2021, 11, 5047-5053.	12.4	93
120	Au@ZIF-8 Coreâ€“Shell Nanoparticles as a SERS Substrate for Volatile Organic Compound Gas Detection. Analytical Chemistry, 2021, 93, 7188-7195.	6.5	121
121	Probing Interfacial Electronic Effects on Singleâ€Molecule Adsorption Geometry and Electron Transport at Atomically Flat Surfaces. Angewandte Chemie - International Edition, 2021, 60, 15452-15458.	14.4	61
122	Probing Interfacial Electronic Effects on Singleâ€Molecule Adsorption Geometry and Electron Transport at Atomically Flat Surfaces. Angewandte Chemie, 2021, 133, 15580-15586.	1.4	1
123	Manipulation of Ultrafast Nonlinear Optical Response Based on Surface Plasmon Resonance. Advanced Optical Materials, 2021, 9, .	7.0	14
124	Adsorption-Induced Active Vanadium Species Facilitate Excellent Performance in Low-Temperature Catalytic NO_x Abatement. Journal of the American Chemical Society, 2021, 143, 10454-10461.	15.0	135
125	Identification of the molecular pathways of RuO2 electroreduction by in-situ electrochemical surface-enhanced Raman spectroscopy. Journal of Catalysis, 2021, 400, 367-371.	6.5	44
126	Understanding the Roles of Electrogenerated Co³⁺ and Co⁴⁺ in Selectivityâ€Tuned 5â€Hydroxymethylfurfural Oxidation. Angewandte Chemie, 2021, 133, 20698-20705.	1.4	40

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127	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N₃ as an Active Site for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2021, 143, 14530-14539.	15.0	453
128	Ag Nanowires Embedded ZnO for Semitransparent Organic Solar Cells with 13.76% Efficiency and 19.09% Average Visible Transmittance. Journal of Physical Chemistry C, 2021, 125, 18623-18629.	3.1	20
129	Understanding the Roles of Electrogenerated Co³⁺ and Co⁴⁺ in Selectivityâ€Tuned 5â€Hydroxymethylfurfural Oxidation. Angewandte Chemie - International Edition, 2021, 60, 20535-20542.	14.4	254
130	Direct Z-scheme WO3- nanowire-bridged TiO2 nanorod arrays for highly efficient photoelectrochemical overall water splitting. Journal of Energy Chemistry, 2021, 59, 721-729.	14.3	57
131	In Situ Raman Observation of Oxygen Activation and Reaction at Platinumâ€“Ceria Interfaces during CO Oxidation. Journal of the American Chemical Society, 2021, 143, 15635-15643.	15.0	144
132	Efficient CO2 electroreduction on Pd-based core-shell nanostructure with tensile strain. Journal of Electroanalytical Chemistry, 2021, 896, 115205.	3.9	10
133	Water structure at the multilayers of palladium deposited at nanostructured Au electrodes. Journal of Electroanalytical Chemistry, 2021, 896, 115243.	3.9	2
134	Stable Electrochemiluminescence of CsPbBr₃ Perovskite Nanocrystals Assisted by Graphene Oxide for Ultrasensitive Sensing. ACS Applied Nano Materials, 2021, 4, 8823-8833.	5.3	18
135	Ligand-Free Fabrication of Ag Nanoassemblies for Highly Sensitive and Reproducible Surface-Enhanced Raman Scattering Sensing of Antibiotics. ACS Applied Materials & Interfaces, 2021, 13, 1766-1772.	8.0	13
136	Evolution of Cationic Vacancy Defects: A Motif for Surface Restructuration of OER Precatalyst. Angewandte Chemie - International Edition, 2021, 60, 26829-26836.	14.4	527
137	Rational Synthesis of Polymeric Nitrogen N₈^{â€“} with Ultraviolet Irradiation and Its Oxygen Reduction Reaction Mechanism Study with In Situ Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. ACS Catalysis, 2021, 11, 13034-13040.	12.4	8
138	Effect of the Duty Cycle of Flower-like Silver Nanostructures Fabricated with a Lyotropic Liquid Crystal on the SERS Spectrum. Molecules, 2021, 26, 6522.	4.3	5
139	Electrochemical Storage of Atomic Hydrogen on Single Layer Graphene. Journal of the American Chemical Society, 2021, 143, 18419-18425.	15.0	52
140	Rational Design of 3D Plasmonic Superstructure for Enhanced Photocatalytic Hydrogen Evolution Reaction in Wide Spectral Region. Journal of Physical Chemistry C, 2021, 125, 25455-25461.	3.1	10
141	Real-Time Monitoring of Surface Effects on the Oxygen Reduction Reaction Mechanism for Aprotic Naâ€“O₂ Batteries. Journal of the American Chemical Society, 2021, 143, 20049-20054.	15.0	21
142	Crystallinity-Modulated Co_{2â€“x}V_xO₄ Nanoplates for Efficient Electrochemical Water Oxidation. ACS Catalysis, 2021, 11, 14884-14891.	12.4	35
143	In situ Raman spectroscopyÂreveals the structure and dissociation of interfacial water. Nature, 2021, 600, 81-85.	38.7	1,316
144	Highly efficient ethylene production via electrocatalytic hydrogenation of acetylene under mild conditions. Nature Communications, 2021, 12, .	13.9	165

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145	Combined 3D-QSAR, molecular docking and molecular dynamics study on the benzimidazole inhibitors targeting HCV NS5B polymerase. Journal of Biomolecular Structure and Dynamics, 2020, 38, 1071-1082.	2.8	15
146	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	15.3	3,414
147	Inâ€situ SHINERS Study of the Size and Composition Effect of Ptâ€based Nanocatalysts in Catalytic Hydrogenation. ChemCatChem, 2020, 12, 75-79.	3.6	28
148	Plasmon-Induced Interfacial Hot-Electron Transfer Directly Probed by Raman Spectroscopy. CheM, 2020, 6, 689-702.	16.6	102
149	Toward a quantitative theoretical method for infrared and Raman spectroscopic studies on single-crystal electrode/liquid interfaces. Chemical Science, 2020, 11, 1425-1430.	7.1	13
150	Strong coupling between magnetic resonance and propagating surface plasmons at visible light frequencies. Journal of Chemical Physics, 2020, 152, .	2.8	14
151	Direct In Situ Raman Spectroscopic Evidence of Oxygen Reduction Reaction Intermediates at High-Index Pt(hkl) Surfaces. Journal of the American Chemical Society, 2020, 142, 715-719.	15.0	249
152	Improving Gating Efficiency of Electron Transport through Redoxâ€Active Molecular Junctions with Conjugated Chains. ChemElectroChem, 2020, 7, 1337-1341.	2.9	16
153	Water oxidation intermediates on iridium oxide electrodes probed by in situ electrochemical SHINERS. Chemical Communications, 2020, 56, 1129-1132.	3.4	63
154	Probing Hot Electron Behaviors by Surface-Enhanced Raman Spectroscopy. Cell Reports Physical Science, 2020, 1, 100184.	4.9	20
155	2D Mesoporous Nanomesh from N-Doped Carbon-Encapsulated V₂O₃ Nanowires as an Anode for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2020, 124, 24073-24080.	3.1	23
156	Polarization- and Wavelength-Dependent Shell-Isolated-Nanoparticle-Enhanced Sum-Frequency Generation with High Sensitivity. Physical Review Letters, 2020, 125, .	8.2	32
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