Bin Ren

List of Publications by Year
in descending order

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		7568	5255
296	29,729	77	165
papers	citations	h-index	g-index

308	308	308	22914
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Shell-isolated nanoparticle-enhanced Raman spectroscopy. Nature, 2010, 464, 392-395.	27.8	3,025
2	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
3	Surface-Enhanced Raman Scattering:â€‰ From Noble to Transition Metals and from Rough Surfaces to Ordered Nanostructures. Journal of Physical Chemistry B, 2002, 106, 9463-9483.	2.6	1,263
4	Surface-Enhanced Raman Spectroscopy for Bioanalysis: Reliability and Challenges. Chemical Reviews, 2018, 118, 4946-4980.	47.7	1,241
5	Nanostructure-based plasmon-enhanced Raman spectroscopy for surface analysis of materials. Nature Reviews Materials, 2016, 1, .	48.7	1,229
6	When the Signal Is Not from the Original Molecule To Be Detected: Chemical Transformation of para-Aminothiophenol on Ag during the SERS Measurement. Journal of the American Chemical Society, 2010, 132, 9244-9246.	13.7	693
7	Electrochemical surface-enhanced Raman spectroscopy of nanostructures. Chemical Society Reviews, 2008, 37, 1025.	38.1	547
8	Surface-enhanced Raman spectroscopy: substrate-related issues. Analytical and Bioanalytical Chemistry, 2009, 394, 1729-1745.	3.7	539
9	Nanoscale Probing of Adsorbed Species by Tip-Enhanced Raman Spectroscopy. Physical Review Letters, 2004, 92, 096101.	7.8	531
10	Surface-enhanced Raman spectroscopy: benefits, trade-offs and future developments. Chemical Science, 2020, 11, 4563-4577.	7.4	453
11	Surface analysis using shell-isolated nanoparticle-enhanced Raman spectroscopy. Nature Protocols, 2013, 8, 52-65.	12.0	395
12	Expanding generality of surface-enhanced Raman spectroscopy with borrowing SERS activity strategy. Chemical Communications, 2007, , 3514.	4.1	379
13	Label-Free Surface-Enhanced Raman Spectroscopy Detection of DNA with Single-Base Sensitivity. Journal of the American Chemical Society, 2015, 137, 5149-5154.	13.7	360
14	Activation of Oxygen on Gold and Silver Nanoparticles Assisted by Surface Plasmon Resonances. Angewandte Chemie - International Edition, 2014, 53, 2353-2357.	13.8	357
15	Reliable Quantitative SERS Analysis Facilitated by Coreâ€“Shell Nanoparticles with Embedded Internal Standards. Angewandte Chemie - International Edition, 2015, 54, 7308-7312.	13.8	352
16	Preparation of gold tips suitable for tip-enhanced Raman spectroscopy and light emission by electrochemical etching. Review of Scientific Instruments, 2004, 75, 837-841.	1.3	347
17	ADSORPTION AND REACTION AT ELECTROCHEMICAL INTERFACES AS PROBED BY SURFACE-ENHANCED RAMAN SPECTROSCOPY. Annual Review of Physical Chemistry, 2004, 55, 197-229.	10.8	335
18	Conductive Lewis Base Matrix to Recover the Missing Link of Li₂S₈ during the Sulfur Redox Cycle in Liâ€“S Battery. Chemistry of Materials, 2015, 27, 2048-2055.	6.7	326

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19	Fundamental understanding and applications of plasmon-enhanced Raman spectroscopy. Nature Reviews Physics, 2020, 2, 253-271.	26.6	309
20	Synthesis of AgcoreAushellBimetallic Nanoparticles for Immunoassay Based on Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 4002-4006.	2.6	300
21	Probing the electronic and catalytic properties of a bimetallic surface with 3â€…nm resolution. Nature Nanotechnology, 2017, 12, 132-136.	31.5	290
22	Surface Catalytic Coupling Reaction of p-Mercaptoaniline Linking to Silver Nanostructures Responsible for Abnormal SERS Enhancement: A DFT Study. Journal of Physical Chemistry C, 2009, 113, 18212-18222.	3.1	283
23	Label-Free Detection of Native Proteins by Surface-Enhanced Raman Spectroscopy Using Iodide-Modified Nanoparticles. Analytical Chemistry, 2014, 86, 2238-2245.	6.5	246
24	Surface-enhanced Raman spectroscopic study of p-aminothiophenol. Physical Chemistry Chemical Physics, 2012, 14, 8485.	2.8	242
25	Enhancing the Photothermal Stability of Plasmonic Metal Nanoplates by a Coreâ€Shell Architecture. Advanced Materials, 2011, 23, 3420-3425.	21.0	240
26	Electrochemical Tip-Enhanced Raman Spectroscopy. Journal of the American Chemical Society, 2015, 137, 11928-11931.	13.7	232
27	Revealing the molecular structure of single-molecule junctions in different conductance states by fishing-mode tip-enhanced Raman spectroscopy. Nature Communications, 2011, 2, 305.	12.8	227
28	Mechanism of Cellular Uptake of Graphene Oxide Studied by Surfaceâ€Enhanced Raman Spectroscopy. Small, 2012, 8, 2577-2584.	10.0	208
29	Chemical Enhancement Effects in SERS Spectra:â€‰ A Quantum Chemical Study of Pyridine Interacting with Copper, Silver, Gold and Platinum Metals. Journal of Physical Chemistry C, 2008, 112, 4195-4204.	3.1	207
30	Quantitative Correlation between Defect Density and Heterogeneous Electron Transfer Rate of Single Layer Graphene. Journal of the American Chemical Society, 2014, 136, 16609-16617.	13.7	206
31	Tip-enhanced Raman spectroscopy for surfaces and interfaces. Chemical Society Reviews, 2017, 46, 4020-4041.	38.1	202
32	Study of Molecular Junctions with a Combined Surface-Enhanced Raman and Mechanically Controllable Break Junction Method. Journal of the American Chemical Society, 2006, 128, 14748-14749.	13.7	200
33	Surface-Enhanced Raman Scattering in the Ultraviolet Spectral Region:â€‰ UV-SERS on Rhodium and Ruthenium Electrodes. Journal of the American Chemical Society, 2003, 125, 9598-9599.	13.7	199
34	Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy: Expanding the Versatility of Surface-Enhanced Raman Scattering. Annual Review of Analytical Chemistry, 2011, 4, 129-150.	5.4	177
35	In Situ Study of the Antibacterial Activity and Mechanism of Action of Silver Nanoparticles by Surface-Enhanced Raman Spectroscopy. Analytical Chemistry, 2013, 85, 5436-5443.	6.5	174
36	Tailoring Au-core Pd-shell Pt-cluster nanoparticles for enhanced electrocatalytic activity. Chemical Science, 2011, 2, 531-539.	7.4	172

#	Article	IF	Citations
37	Extraordinary Enhancement of Raman Scattering from Pyridine on Single Crystal Au and Pt Electrodes by Shell-Isolated Au Nanoparticles. Journal of the American Chemical Society, 2011, 133, 15922-15925.	13.7	170
38	Quantitative Detection of Photothermal and Photoelectrocatalytic Effects Induced by SPR from Au@Pt Nanoparticles. Angewandte Chemie - International Edition, 2015, 54, 11462-11466.	13.8	169
39	Density Functional Study and Normal-Mode Analysis of the Bindings and Vibrational Frequency Shifts of the Pyridineâ^'M (M = Cu, Ag, Au, Cu+, Ag+, Au+, and Pt) Complexes. Journal of Physical Chemistry A, 2002, 106, 9042-9052.	2.5	164
40	Theoretical Study of Plasmon-Enhanced Surface Catalytic Coupling Reactions of Aromatic Amines and Nitro Compounds. Journal of Physical Chemistry Letters, 2014, 5, 1259-1266.	4.6	161
41	Palladium-Coated Gold Nanoparticles with a Controlled Shell Thickness Used as Surface-Enhanced Raman Scattering Substrate. Journal of Physical Chemistry C, 2007, 111, 1105-1112.	3.1	159
42	â€œSmartâ€•Ag Nanostructures for Plasmon-Enhanced Spectroscopies. Journal of the American Chemical Society, 2015, 137, 13784-13787.	13.7	157
43	Tip-Enhanced Raman Spectroscopy of Benzenethiol Adsorbed on Au and Pt Single-Crystal Surfaces. Angewandte Chemie - International Edition, 2005, 44, 139-142.	13.8	155
44	Optimization of SERS activities of gold nanoparticles and goldâ€coreâ€“palladiumâ€shell nanoparticles by controlling size and shell thickness. Journal of Raman Spectroscopy, 2008, 39, 1679-1687.	2.5	148
45	Photon-driven charge transfer and photocatalysis of p-aminothiophenol in metal nanogaps: a DFT study of SERS. Chemical Communications, 2011, 47, 2520.	4.1	140
46	Plasmonic photoluminescence for recovering native chemical information from surface-enhanced Raman scattering. Nature Communications, 2017, 8, 14891.	12.8	138
47	Tip-enhanced Raman spectroscopy (TERS) of malachite green isothiocyanate at Au(111): bleaching behavior under the influence of high electromagnetic fields. Journal of Raman Spectroscopy, 2005, 36, 541-550.	2.5	136
48	Probing the Location of Hot Spots by Surface-Enhanced Raman Spectroscopy: Toward Uniform Substrates. ACS Nano, 2014, 8, 528-536.	14.6	136
49	Rational Design and Synthesis of Î³Fe₂O₃@Au Magnetic Gold Nanoflowers for Efficient Cancer Theranostics. Advanced Materials, 2015, 27, 5049-5056.	21.0	135
50	Towards super-clean graphene. Nature Communications, 2019, 10, 1912.	12.8	133
51	A Plasmonic Sensor Array with Ultrahigh Figures of Merit and Resonance Linewidths down to 3 nm. Advanced Materials, 2018, 30, e1706031.	21.0	132
52	Raman spectroscopy on transition metals. Analytical and Bioanalytical Chemistry, 2007, 388, 29-45.	3.7	127
53	A DFT study on photoinduced surface catalytic coupling reactions on nanostructured silver: selective formation of azobenzene derivatives from para-substituted nitrobenzene and aniline. Physical Chemistry Chemical Physics, 2012, 14, 12919.	2.8	126
54	In Situ Identification of Intermediates of Benzyl Chloride Reduction at a Silver Electrode by SERS Coupled with DFT Calculations. Journal of the American Chemical Society, 2010, 132, 9534-9536.	13.7	124

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55	Surface-enhanced Raman scattering from transition metals with special surface morphology and nanoparticle shape. Faraday Discussions, 2006, 132, 159-170.	3.2	123
56	Size Effect on SERS of Gold Nanorods Demonstrated via Single Nanoparticle Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 20806-20813.	3.1	123
57	Disentangling charge carrier from photothermal effects in plasmonic metal nanostructures. Nature Communications, 2019, 10, 2671.	12.8	119
58	Tip-enhanced Raman spectroscopy: tip-related issues. Analytical and Bioanalytical Chemistry, 2015, 407, 8177-8195.	3.7	113
59	Synthesis of Au@Pd coreâ€“shell nanoparticles with controllable size and their application in surface-enhanced Raman spectroscopy. Chemical Physics Letters, 2005, 408, 354-359.	2.6	110
60	BSA-Coated Nanoparticles for Improved SERS-Based Intracellular pH Sensing. Analytical Chemistry, 2014, 86, 12250-12257.	6.5	110
61	Probing the edge-related properties of atomically thin MoS2 at nanoscale. Nature Communications, 2019, 10, 5544.	12.8	108
62	Thickness-Controlled Synthesis of Ultrathin Au Sheets and Surface Plasmonic Property. Journal of the American Chemical Society, 2013, 135, 12544-12547.	13.7	106
63	Surface-Enhanced Raman Spectroscopy Using Gold-Core Platinum-Shell Nanoparticle Film Electrodes:â€‰ Toward a Versatile Vibrational Strategy for Electrochemical Interfaces. Langmuir, 2006, 22, 10372-10379.	3.5	105
64	Rapid Antibiotic Susceptibility Testing of Pathogenic Bacteria Using Heavy-Water-Labeled Single-Cell Raman Spectroscopy in Clinical Samples. Analytical Chemistry, 2019, 91, 6296-6303.	6.5	104
65	Synthesis of ultrathin and compact Au@MnO₂ nanoparticles for shellâ€isolated nanoparticleâ€enhanced Raman spectroscopy (SHINERS). Journal of Raman Spectroscopy, 2012, 43, 40-45.	2.5	102
66	Electrochemical preparation of platinum nanothorn assemblies with high surface enhanced Raman scattering activity. Chemical Communications, 2006, , 4090.	4.1	96
67	Bridging the Gap between Electrochemical and Organometallic Activation: Benzyl Chloride Reduction at Silver Cathodes. Journal of the American Chemical Society, 2010, 132, 17199-17210.	13.7	96
68	Plasmon-Induced Magnetic Resonance Enhanced Raman Spectroscopy. Nano Letters, 2018, 18, 2209-2216.	9.1	96
69	Tipâ€enhanced Raman spectroscopy â€“ an interlaboratory reproducibility and comparison study. Journal of Raman Spectroscopy, 2014, 45, 22-31.	2.5	94
70	Quantifying Surface Temperature of Thermoplasmonic Nanostructures. Journal of the American Chemical Society, 2018, 140, 13680-13686.	13.7	92
71	Plasmon-Enhanced Second-Harmonic Generation Nanorulers with Ultrahigh Sensitivities. Nano Letters, 2015, 15, 6716-6721.	9.1	88
72	Tip-enhanced Raman spectroscopy for investigating adsorbed species on a single-crystal surface using electrochemically prepared Au tips. Applied Physics Letters, 2007, 91, 101105.	3.3	87

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73	Synthesis and Characterization of Au@Co and Au@Ni Coreâ"Shell Nanoparticles and Their Applications in Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 345-350.	3.1	84
74	Tuning the energy band-gap of crystalline gallium oxide to enhance photocatalytic water splitting: mixed-phase junctions. Journal of Materials Chemistry A, 2014, 2, 17005-17014.	10.3	84
75	Nanometre-scale spectroscopic visualization of catalytic sites during a hydrogenation reaction on a Pd/Au bimetallic catalyst. Nature Catalysis, 2020, 3, 834-842.	34.4	84
76	Correlating the Shape, Surface Plasmon Resonance, and Surface-Enhanced Raman Scattering of Gold Nanorods. Journal of Physical Chemistry C, 2009, 113, 10459-10464.	3.1	83
77	Transient Electrochemical Surface-Enhanced Raman Spectroscopy: A Millisecond Time-Resolved Study of an Electrochemical Redox Process. Journal of the American Chemical Society, 2015, 137, 11768-11774.	13.7	83
78	SHINERS and plasmonic properties of Au Core SiO₂ shell nanoparticles with optimal core size and shell thickness. Journal of Raman Spectroscopy, 2013, 44, 994-998.	2.5	79
79	Distinctive Enhanced and Tunable Plasmon Resonant Absorption from Controllable Au@Cu₂O Nanoparticles: Experimental and Theoretical Modeling. Journal of Physical Chemistry C, 2012, 116, 4477-4483.	3.1	77
80	Plasmon-enhanced stimulated Raman scattering microscopy with single-molecule detection sensitivity. Nature Communications, 2019, 10, 5318.	12.8	77
81	Key Role of Direct Adsorption on SERS Sensitivity: Synergistic Effect among Target, Aggregating Agent, and Surface with Au or Ag Colloid as Surface-Enhanced Raman Spectroscopy Substrate. Journal of Physical Chemistry Letters, 2020, 11, 1022-1029.	4.6	75
82	SERS and DFT study of water on metal cathodes of silver, gold and platinum nanoparticles. Physical Chemistry Chemical Physics, 2010, 12, 2493.	2.8	73
83	Au@organosilica multifunctional nanoparticles for the multimodal imaging. Chemical Science, 2011, 2, 1463.	7.4	73
84	Probing electrode/electrolyte interfacial structure in the potential region of hydrogen evolution by Raman spectroscopy. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 3829.	1.7	72
85	Tunable SERS from aluminium nanohole arrays in the ultraviolet region. Chemical Communications, 2011, 47, 3909.	4.1	72
86	Metallic Plasmonic Array Structures: Principles, Fabrications, Properties, and Applications. Advanced Materials, 2021, 33, e2007988.	21.0	72
87	Surface enhanced Raman scattering from transition metal nano-wire array and the theoretical consideration. Surface Science, 2002, 514, 108-116.	1.9	67
88	Clean Substrates Prepared by Chemical Adsorption of Iodide Followed by Electrochemical Oxidation for Surface-Enhanced Raman Spectroscopic Study of Cell Membrane. Analytical Chemistry, 2008, 80, 5118-5125.	6.5	67
89	Functional Single-Cell Approach to Probing Nitrogen-Fixing Bacteria in Soil Communities by Resonance Raman Spectroscopy with ¹⁵N₂ Labeling. Analytical Chemistry, 2018, 90, 5082-5089.	6.5	67
90	Rational design and SERS properties of side-by-side, end-to-end and end-to-side assemblies of Au nanorods. Journal of Materials Chemistry, 2011, 21, 14448.	6.7	66

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91	Intraband Hot-Electron Photoluminescence from Single Silver Nanorods. ACS Photonics, 2016, 3, 1248-1255.	6.6	66
92	Laser-Induced Formation of Metalâ^'Moleculeâ^'Metal Junctions between Au Nanoparticles As Probed by Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 6499-6508.	3.1	64
93	Charge-Transfer Enhancement Involved in the SERS of Adenine on Rh and Pd Demonstrated by Ultraviolet to Visible Laser Excitation. Journal of Physical Chemistry C, 2010, 114, 16588-16595.	3.1	63
94	A Controllable Electrochemical Fabrication of Metallic Electrodes with a Nanometer/Angstrom-Sized Gap Using an Electric Double Layer as Feedback. Angewandte Chemie - International Edition, 2005, 44, 1265-1268.	13.8	62
95	Cuâ€“Au alloy nanotubes with five-fold twinned structure and their application in surface-enhanced Raman scattering. Journal of Materials Chemistry, 2012, 22, 18192.	6.7	62
96	FDTD for plasmonics: Applications in enhanced Raman spectroscopy. Science Bulletin, 2010, 55, 2635-2642.	1.7	61
97	Gold-coated AFM tips for tip-enhanced Raman spectroscopy: theoretical calculation and experimental demonstration. Optics Express, 2015, 23, 13804.	3.4	60
98	Periodic trends in the bonding and vibrational coupling: Pyridine interacting with transition metals and noble metals studied by surface-enhanced Raman spectroscopy and density-functional theory. Journal of Chemical Physics, 2003, 119, 1701-1709.	3.0	59
99	Clean and modified substrates for direct detection of living cells by surface-enhanced Raman spectroscopy. Chemical Communications, 2011, 47, 5738.	4.1	59
100	Probing nanoscale spatial distribution of plasmonically excited hot carriers. Nature Communications, 2020, 11, 4211.	12.8	59
101	DNAâ€Directed Gold Nanodimers with Tunable Sizes and Interparticle Distances and Their Surface Plasmonic Properties. Small, 2013, 9, 2308-2315.	10.0	58
102	In Situ Imaging of Live-Cell Extracellular pH during Cell Apoptosis with Surface-Enhanced Raman Spectroscopy. Analytical Chemistry, 2018, 90, 13922-13928.	6.5	58
103	Uniform Periodic Bowtie SERS Substrate with Narrow Nanogaps Obtained by Monitored Pulsed Electrodeposition. ACS Applied Materials & Interfaces, 2020, 12, 36505-36512.	8.0	58
104	Theoretical Consideration on Preparing Silver Particle Films by Adsorbing Nanoparticles from Bulk Colloids to an Airâ^'Water Interface. Langmuir, 2004, 20, 8831-8838.	3.5	56
105	Theoretical Study of Binding Interactions and Vibrational Raman Spectra of Water in Hydrogen-Bonded Anionic Complexes:â€‰ (H₂O)_n⁻ (n = 2) Tj ETQq1 1 0.78431	2.5	55
106	Tracking the intracellular drug release from graphene oxide using surface-enhanced Raman spectroscopy. Nanoscale, 2013, 5, 10591.	5.6	55
107	Density functional theory study of surface-enhanced Raman scattering spectra of pyridine adsorbed on noble and transition metal surfaces. Journal of Raman Spectroscopy, 2005, 36, 533-540.	2.5	54
108	Coreâ€“shell nanoparticle based SERS from hydrogen adsorbed on a rhodium(111) electrode. Chemical Communications, 2011, 47, 2023.	4.1	54

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109	Interfacial capacitance of graphene: Correlated differential capacitance and in situ electrochemical Raman spectroscopy study. Electrochimica Acta, 2013, 110, 754-761.	5.2	53
110	Multianalyte immunoassay based on surface-enhanced Raman spectroscopy. Journal of Raman Spectroscopy, 2007, 38, 896-902.	2.5	52
111	An Effective Strategy for Room-Temperature Synthesis of Single-Crystalline Palladium Nanocubes and Nanodendrites in Aqueous Solution. Crystal Growth and Design, 2009, 9, 2335-2340.	3.0	52
112	Synthesis and Characterization of Gold Nanoparticles Coated with Ultrathin and Chemically Inert Dielectric Shells for SHINERS Applications. Applied Spectroscopy, 2011, 65, 620-626.	2.2	52
113	Dropâ€coating deposition and surfaceâ€enhanced Raman spectroscopies (DCDRS and SERS) provide complementary information of whole human tears. Journal of Raman Spectroscopy, 2014, 45, 565-573.	2.5	52
114	Probing the Local Generation and Diffusion of Active Oxygen Species on a Pd/Au Bimetallic Surface by Tip-Enhanced Raman Spectroscopy. Journal of the American Chemical Society, 2020, 142, 1341-1347.	13.7	52
115	Deep Learning for Biospectroscopy and Biospectral Imaging: State-of-the-Art and Perspectives. Analytical Chemistry, 2021, 93, 3653-3665.	6.5	52
116	Confined etchant layer technique for two-dimensional lithography at high resolution using electrochemical scanning tunnelling microscopy. Faraday Discussions, 1992, 94, 37.	3.2	51
117	Sensitive and Versatile Detection of the Fouling Process and Fouling Propensity of Proteins on Polyvinylidene Fluoride Membranes via Surface-Enhanced Raman Spectroscopy. Analytical Chemistry, 2011, 83, 1709-1716.	6.5	51
118	Largeâ€Area Hybrid Plasmonic Optical Cavity (HPOC) Substrates for Surfaceâ€Enhanced Raman Spectroscopy. Advanced Functional Materials, 2018, 28, 1802263.	14.9	51
119	Role of Adsorption Orientation in Surface Plasmon-Driven Coupling Reactions Studied by Tip-Enhanced Raman Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 2306-2312.	4.6	51
120	Extraction of Absorption and Scattering Contribution of Metallic Nanoparticles Toward Rational Synthesis and Application. Analytical Chemistry, 2015, 87, 1058-1065.	6.5	50
121	Novel Electrochemical Raman Spectroscopy Enabled by Water Immersion Objective. Analytical Chemistry, 2016, 88, 9381-9385.	6.5	49
122	Electrochemical and Surfaced-Enhanced Raman Spectroscopic Investigation of CO and SCN-Adsorbed on Aucoreâ^'PtshellNanoparticles Supported on GC Electrodes. Langmuir, 2005, 21, 7449-7455.	3.5	47
123	Characterization of surface water on Au core Pt-group metal shell nanoparticles coated electrodes by surface-enhanced Raman spectroscopy. Chemical Communications, 2007, , 4608.	4.1	47
124	Electrochemically Roughened Palladium Electrodes for Surface-Enhanced Raman Spectroscopy:â€‰Methodology, Mechanism, and Application. Journal of Physical Chemistry C, 2007, 111, 1770-1775.	3.1	47
125	Cell-Penetrating Peptide Conjugated SERS Nanosensor for in Situ Intracellular pH Imaging of Single Living Cells during Cell Cycle. Analytical Chemistry, 2019, 91, 8383-8389.	6.5	47
126	Observing atomic layer electrodeposition on single nanocrystals surface by dark field spectroscopy. Nature Communications, 2020, 11, 2518.	12.8	47

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127	Uniform gold spherical particles for single-particle surface-enhanced Raman spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 4130.	2.8	46
128	Rational fabrication of a gold-coated AFM TERS tip by pulsed electrodeposition. Nanoscale, 2015, 7, 18225-18231.	5.6	46
129	Structural evolution of NM (Ni and Mn) lithium-rich layered material revealed by in-situ electrochemical Raman spectroscopic study. Journal of Power Sources, 2016, 310, 85-90.	7.8	45
130	Shellâ€Isolated Tipâ€Enhanced Raman and Fluorescence Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 7523-7527.	13.8	44
131	Realâ€Space Observation of Atomic Siteâ€Specific Electronic Properties of a Pt Nanoisland/Au(111) Bimetallic Surface by Tipâ€Enhanced Raman Spectroscopy. Angewandte Chemie - International Edition, 2018, 57, 13177-13181.	13.8	44
132	Liquid-Phase Epitaxial Growth of Highly Oriented and Multivariate Surface-Attached Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 18984-18993.	13.7	44
133	Portable tumor biosensing of serum by plasmonic biochips in combination with nanoimprint and microfluidics. Nanophotonics, 2019, 8, 307-316.	6.0	44
134	Electrochemically Roughened Rhodium Electrode as a Substrate for Surface-enhanced Raman Spectroscopy. Journal of Physical Chemistry B, 2003, 107, 899-902.	2.6	43
135	Tipâ€enhanced Raman spectroscopy for investigating adsorbed nonresonant molecules on singleâ€crystal surfaces: tip regeneration, probe molecule, and enhancement effect. Journal of Raman Spectroscopy, 2009, 40, 1400-1406.	2.5	43
136	High-Throughput Single-Particle Analysis of Metal-Enhanced Fluorescence in Free Solution Using Ag@SiO₂ Coreâ€“Shell Nanoparticles. ACS Sensors, 2017, 2, 1369-1376.	7.8	43
137	Surface-enhanced Raman spectroscopy with ultraviolet excitation. Journal of Raman Spectroscopy, 2005, 36, 606-612.	2.5	42
138	SERS study of Ag nanoparticles electrodeposited on patterned TiO₂ nanotube films. Journal of Raman Spectroscopy, 2011, 42, 986-991.	2.5	42
139	Photon-driven charge transfer and Herzberg-Teller vibronic coupling mechanism in surface-enhanced Raman scattering of p-aminothiophenol adsorbed on coinage metal surfaces: A density functional theory study. Journal of Chemical Physics, 2011, 135, 134707.	3.0	40
140	Structural and Charge Sensitivity of Surface-Enhanced Raman Spectroscopy of Adenine on Silver Surface: A Quantum Chemical Study. Journal of Physical Chemistry C, 2013, 117, 23730-23737.	3.1	40
141	LSPR properties of metal nanoparticles adsorbed at a liquidâ€“liquid interface. Physical Chemistry Chemical Physics, 2013, 15, 5374.	2.8	40
142	Shell-isolated nanoparticle-enhanced Raman spectroscopy: Nanoparticle synthesis, characterization and applications in electrochemistry. Journal of Electroanalytical Chemistry, 2013, 688, 5-11.	3.8	40
143	Laser Power Dependent Surface-Enhanced Raman Spectroscopic Study of 4-Mercaptopyridine on Uniform Gold Nanoparticle-Assembled Substrates. Journal of Physical Chemistry C, 2014, 118, 3750-3757.	3.1	40
144	Revealing Intermolecular Interaction and Surface Restructuring of an Aromatic Thiol Assembling on Au(111) by Tip-Enhanced Raman Spectroscopy. Analytical Chemistry, 2016, 88, 915-921.	6.5	40

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145	Zr-Metalâ€“Organic Frameworks Featuring TEMPO Radicals: Synergistic Effect between TEMPO and Hydrophilic Zr-Node Defects Boosting Aerobic Oxidation of Alcohols. ACS Applied Materials & Interfaces, 2019, 11, 3034-3043.	8.0	40
146	Shaping and Shelling Pt and Pd Nanoparticles for Ultraviolet Laser Excited Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2008, 112, 17618-17624.	3.1	39
147	Theoretical Model of Neurotransmitter Release during In Vivo Vesicular Exocytosis Based on a Grainy Biphasic Nano-Structuration of Chromogranins within Dense Core Matrixes. Journal of the Electrochemical Society, 2016, 163, H3014-H3024.	2.9	39
148	SERS From Transition Metals and Excited by Ultraviolet Light. , 2006, , 125-146.		38
149	Electrochemical and in Situ SERS Studies on the Adsorption of 2-Hydroxypyridine and Polyethyleneimine during Silver Electroplating. Journal of Physical Chemistry C, 2009, 113, 9224-9229.	3.1	38
150	Single molecular catalysis of a redox enzyme on nanoelectrodes. Faraday Discussions, 2016, 193, 133-139.	3.2	38
151	Determining the Interfacial Refractive Index via Ultrasensitive Plasmonic Sensors. Journal of the American Chemical Society, 2020, 142, 10905-10909.	13.7	37
152	Buoyant particulate strategy for few-to-single particle-based plasmonic enhanced nanosensors. Nature Communications, 2020, 11, 2603.	12.8	36
153	Orientational behavior of cyanide on a roughened platinum surface investigated by surface enhanced Raman spectroscopy. Chemical Physics Letters, 2000, 322, 561-566.	2.6	35
154	Theoretical Study on Thermodynamic and Spectroscopic Properties of Electro-Oxidation of p-Aminothiophenol on Gold Electrode Surfaces. Journal of Physical Chemistry C, 2014, 118, 27113-27122.	3.1	35
155	Optimizing Detection Sensitivity on Surface-Enhanced Raman Scattering of Transition-Metal Electrodes with Confocal Raman Microscopy. Applied Spectroscopy, 2003, 57, 419-427.	2.2	34
156	Potential-Dependent Chemisorption of Carbon Monoxide at a Gold Coreâ”Platinum Shell Nanoparticle Electrode: A Combined Study by Electrochemical in Situ Surface-Enhanced Raman Spectroscopy and Density Functional Theory. Journal of Physical Chemistry C, 2010, 114, 403-411.	3.1	34
157	Ultrathin polydopamine film coated gold nanoparticles: a sensitive, uniform, and stable SHINERS substrate for detection of benzotriazole. Analyst, The, 2017, 142, 3459-3467.	3.5	34
158	Speeding Up the Line-Scan Raman Imaging of Living Cells by Deep Convolutional Neural Network. Analytical Chemistry, 2019, 91, 7070-7077.	6.5	34
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