List of Publications by Year in descending order

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<u> Sai Dhan</u>

#	Article	IF	CITATIONS
1	Atomically dispersed platinum supported on curved carbon supports for efficient electrocatalytic hydrogen evolution. Nature Energy, 2019, 4, 512-518.	39.5	756
2	Epitaxial Growth of Heterogeneous Metal Nanocrystals: From Gold Nano-octahedra to Palladium and Silver Nanocubes. Journal of the American Chemical Society, 2008, 130, 6949-6951.	13.7	719
3	Chemical Enhancement Effects in SERS Spectra:  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
4	Tailoring Au-core Pd-shell Pt-cluster nanoparticles for enhanced electrocatalytic activity. Chemical Science, 2011, 2, 531-539.	7.4	172
5	Core–Shell Nanostructure-Enhanced Raman Spectroscopy for Surface Catalysis. Accounts of Chemical Research, 2020, 53, 729-739.	15.6	136
6	Theoretical Modeling of Plasmon-Enhanced Raman Images of a Single Molecule with Subnanometer Resolution. Journal of the American Chemical Society, 2015, 137, 9515-9518.	13.7	92
7	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
8	The Realistic Domain Structure of As-Synthesized Graphene Oxide from Ultrafast Spectroscopy. Journal of the American Chemical Society, 2013, 135, 12468-12474.	13.7	64
9	Observation of inhomogeneous plasmonic field distribution in a nanocavity. Nature Nanotechnology, 2020, 15, 922-926.	31.5	62
10	Theoretical Study of Binding Interactions and Vibrational Raman Spectra of Water in Hydrogen-Bonded Anionic Complexes:  (H ₂ 0) <i>_n</i> ⁻ (<i>n</i> = 2	2) Tj ETQqi 2.5	0 0 0 rgBT /O
11	Mechanism for the Extremely Efficient Sensitization of Yb ³⁺ Luminescence in CsPbCl ₃ Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 487-492.	4.6	55
12	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
13	Visualization of Vibrational Modes in Real Space by Tipâ€Enhanced Nonâ€Resonant Raman Spectroscopy. Angewandte Chemie - International Edition, 2016, 55, 1041-1045.	13.8	46
14	Beyond Mean-Field Microkinetics: Toward Accurate and Efficient Theoretical Modeling in Heterogeneous Catalysis. ACS Catalysis, 2018, 8, 5816-5826.	11.2	41
15	Real-time detection of single-molecule reaction by plasmon-enhanced spectroscopy. Science Advances, 2020, 6, eaba6012.	10.3	41
16	Selective Catalytic Dehydrogenative Oxidation of Bioâ€Polyols to Lactic Acid. Angewandte Chemie - International Edition, 2020, 59, 13871-13878.	13.8	39
17	Roles of Plasmonic Excitation and Protonation on Photoreactions of <i>p</i> -Aminobenzenethiol on Ag Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 6893-6902.	3.1	33
18	Exceeding the volcano relationship in oxygen reduction/evolution reactions using single-atom-based catalysts with dual-active-sites. Journal of Materials Chemistry A, 2020, 8, 10193-10198.	10.3	33

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19	Microphotoelectrochemical Surface-Enhanced Raman Spectroscopy: Toward Bridging Hot-Electron Transfer with a Molecular Reaction. Journal of the American Chemical Society, 2020, 142, 8483-8489.	13.7	31
20	Effect of Intrinsic Properties of Metals on the Adsorption Behavior of Molecules:Â Benzene Adsorption on Pt Group Metals. Journal of Physical Chemistry B, 2006, 110, 17498-17506.	2.6	30
21	Overtone Vibrational Transition-Induced Lanthanide Excited-State Quenching in Yb ³⁺ /Er ³⁺ -Doped Upconversion Nanocrystals. ACS Nano, 2018, 12, 10572-10575.	14.6	29
22	A density functional theory approach to mushroom-like platinum clusters on palladium-shell over Au core nanoparticles for high electrocatalytic activity. Physical Chemistry Chemical Physics, 2011, 13, 5441.	2.8	28
23	Probing the Electronic Structure of Heterogeneous Metal Interfaces by Transition Metal Shelled Gold Nanoparticle-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 20684-20691.	3.1	28
24	Theory for Modeling of High Resolution Resonant and Nonresonant Raman Images. Journal of Chemical Theory and Computation, 2016, 12, 4986-4995.	5.3	24
25	Density functional theory study on the adsorption and decomposition of the formic acid catalyzed by highly active mushroom-like Au@Pd@Pt tri-metallic nanoparticles. Physical Chemistry Chemical Physics, 2013, 15, 4625.	2.8	22
26	Revisiting the Acetaldehyde Oxidation Reaction on a Pt Electrode by High-Sensitivity and Wide-Frequency Infrared Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 8727-8734.	4.6	21
27	Orientation Change of Adsorbed Pyrazine on Roughened Rhodium Electrodes as Probed by Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 17597-17602.	2.6	20
28	Bistability for CO Oxidation: An Understanding from Extended Phenomenological Kinetics Simulations. ACS Catalysis, 2019, 9, 11116-11124.	11.2	19
29	Hybrid molecular dynamics and first-principles study on the work function of a Pt(111) electrode immersed in aqueous solution at room temperature. Physical Review B, 2012, 86, .	3.2	18
30	Aggregation-induced chiral symmetry breaking of a naphthalimide–cyanostilbene dyad. Physical Chemistry Chemical Physics, 2014, 16, 23854-23860.	2.8	16
31	Optomagnetic Effect Induced by Magnetized Nanocavity Plasmon. Journal of the American Chemical Society, 2019, 141, 13795-13798.	13.7	16
32	Structures of Water Molecules Adsorbed on a Gold Electrode under Negative Potentials. Journal of Physical Chemistry C, 2010, 114, 4051-4056.	3.1	15
33	Significant Contributions of the Albrecht's <i>A</i> Term to Nonresonant Raman Scattering Processes. Journal of Chemical Theory and Computation, 2015, 11, 5385-5390.	5.3	15
34	Molecular Design to Enhance the Thermal Stability of a Photo Switchable Molecular Junction Based on Dimethyldihydropyrene and Cyclophanediene Isomerization. Journal of Physical Chemistry C, 2015, 119, 11468-11474.	3.1	14
35	Lighting up long-range charge-transfer states by a localized plasmonic field. Nanoscale, 2017, 9, 18189-18193.	5.6	14
36	Identification of Water Hexamer on Cu(111) Surfaces. Journal of the American Chemical Society, 2020, 142, 6902-6906.	13.7	14

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37	Theoretical modeling of surface and tipâ€enhanced Raman spectroscopies. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2017, 7, e1293.	14.6	13
38	Quasi-Analytical Approach for Modeling of Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2015, 119, 28992-28998.	3.1	13
39	Vibrational identification for conformations of trans-1,2-bis (4-pyridyl) ethylene in gold molecular junctions. Chemical Physics, 2015, 453-454, 20-25.	1.9	12
40	Gauge invariant theory for super high resolution Raman images. Journal of Chemical Physics, 2017, 146, 194106.	3.0	12
41	Identifying the structure of 4-chlorophenyl isocyanide adsorbed on Au(111) and Pt(111) surfaces by first-principles simulations of Raman spectra. Physical Chemistry Chemical Physics, 2017, 19, 32389-32397.	2.8	12
42	Theoretical modeling of tip-enhanced resonance Raman images of switchable azobenzene molecules on Au(111). Nanoscale, 2018, 10, 11850-11860.	5.6	12
43	Molecular polarization bridging physical and chemical enhancements in surface enhanced Raman scattering. Chemical Communications, 2011, 47, 11438.	4.1	11
44	Optical Excitation in Donor–Pt–Acceptor Complexes: Role of the Structure. Journal of Physical Chemistry A, 2016, 120, 3547-3553.	2.5	11
45	Tuning electronic and magnetic properties of armchair zigzag hybrid graphene nanoribbons by the choice of supercell model of grain boundaries. Journal of Applied Physics, 2014, 115, 104303.	2.5	10
46	Monitoring Hydrogen/Deuterium Tautomerization in Transient Isomers of Single Porphine by Highly Localized Plasmonic Field. Journal of Physical Chemistry C, 2019, 123, 11081-11093.	3.1	9
47	Structural Phase Transitions of Molecular Self-Assembly Driven by Nonbonded Metal Adatoms. ACS Nano, 2020, 14, 6331-6338.	14.6	9
48	The effect of Duschinsky rotation on charge transport properties of molecular junctions in the sequential tunneling regime. Physical Chemistry Chemical Physics, 2015, 17, 23007-23016.	2.8	8
49	Structural Exploration of Multilayered Ionic Liquid/Ag Electrode Interfaces by Atomic Force Microscopy and Surfaceâ€Enhanced Raman Spectroscopy. ChemElectroChem, 2020, 7, 4936-4942.	3.4	8
50	Finding the true pathway for reversible isomerization of a single azobenzene molecule tumbling on Au(111) surface. Nanoscale, 2020, 12, 10474-10479.	5.6	8
51	Optical Images of Molecular Vibronic Couplings from Tip-Enhanced Fluorescence Excitation Spectroscopy. Jacs Au, 2022, 2, 150-158.	7.9	8
52	Theoretical simulations for vibrationally-resolved absorption spectra of naphthalenediimide cyclophane derivatives. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 183, 339-347.	3.9	7
53	Effects of Plasmon Modes on Resonant Raman Images of a Single Molecule. Journal of Physical Chemistry Letters, 2020, 11, 407-411.	4.6	7
54	Visualization of Vibrational Modes in Real Space by Tipâ€Enhanced Nonâ€Resonant Raman Spectroscopy. Angewandte Chemie, 2016, 128, 1053-1057.	2.0	6

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55	Numerical investigations on the electromagnetic enhancement effect to tip-enhanced Raman scattering and fluorescence processes. Journal of Physics Condensed Matter, 2019, 31, 235301.	1.8	6
56	Selective Catalytic Dehydrogenative Oxidation of Bioâ€Polyols to Lactic Acid. Angewandte Chemie, 2020, 132, 13975-13982.	2.0	6
57	Oxidation Mechanism of Si(111)-7 × 7 by Water: A Theoretical Study. Journal of Physical Chemistry C, 2013, 117, 15763-15772.	3.1	4
58	Infrared spectra of small anionic water clusters from density functional theory and wavefunction theory calculations. Physical Chemistry Chemical Physics, 2015, 17, 12698-12707.	2.8	4
59	Electric Field Controlled Single-Molecule Optical Switch by Through-Space Charge Transfer State. Journal of Physical Chemistry Letters, 2021, 12, 9094-9099.	4.6	4
60	Thermal effects on electronic properties of CO/Pt(111) in water. Physical Chemistry Chemical Physics, 2013, 15, 13619.	2.8	2
61	Potential-Induced Phase Transition of <i>N</i> -Isobutyryl-L-cysteine Monolayers on Au (111) Surfaces. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 1010-1016.	4.9	2
62	Harvesting of surface plasmon polaritons: Role of the confinement factor. Journal of Chemical Physics, 2020, 153, 094107.	3.0	1
63	Surface-enhanced Raman Spectroscopy for Studying the Tensile Structure Between Au@Pd Nanoparticle Interfaces. , 2010, , .		0
64	Feasible Catalytic Strategy for Writing Conductive Nanoribbons on a Single-Layer Graphene Fluoride. Journal of Physical Chemistry C, 2014, 118, 22643-22648.	3.1	0
65	Rücktitelbild: Visualization of Vibrational Modes in Real Space by Tipâ€Enhanced Nonâ€Resonant Raman Spectroscopy (Angew. Chem. 3/2016). Angewandte Chemie, 2016, 128, 1232-1232.	2.0	0
66	Theoretical simulations of potential of zero charge for a Pt(111) electrode immersed in electrolyte solution with medium concentra-tions at room temperature. Scientia Sinica Chimica, 2015, 45, 1304-1309.	0.4	0