Sylwester Gawinkowski

List of Publications by Year
in descending order

39 papers	1,091 citations	516710 16 h-index	395702 33 g-index
40 all docs	40 docs citations	40 times ranked	1516 citing authors

#	Article	IF	Citations
1	Controlling intramolecular hydrogen transfer in a porphycene molecule with single atoms or molecules located nearby. Nature Chemistry, 2014, 6, 41-46.	13.6	204
2	Force-induced tautomerization in a single molecule. Nature Chemistry, 2016, 8, 935-940.	13.6	111
3	Thermally and Vibrationally Induced Tautomerization of Single Porphycene Molecules on a Cu(110) Surface. Physical Review Letters, 2013, 111, 246101.	7.8	93
4	Hot Carrier-Induced Tautomerization within a Single Porphycene Molecule on Cu(111). ACS Nano, 2015, 9, 7287-7295.	14.6	72
5	Direct Observation of Photoinduced Tautomerization in Single Molecules at a Metal Surface. Nano Letters, 2016, 16, 1034-1041.	9.1	67
6	Highly reproducible, stable and multiply regenerated surface-enhanced Raman scattering substrate for biomedical applications. Journal of Materials Chemistry, 2011, 21, 8662.	6.7	65
7	Direct Observation of Double Hydrogen Transfer via Quantum Tunneling in a Single Porphycene Molecule on a Ag(110) Surface. Journal of the American Chemical Society, 2017, 139, 12681-12687.	13.7	49
8	Vibrations and hydrogen bonding in porphycene. Physical Chemistry Chemical Physics, 2012, 14, 5489.	2.8	41
9	Theory of hot electrons: general discussion. Faraday Discussions, 2019, 214, 245-281.	3.2	34
10	Near-Field Enhanced Photochemistry of Single Molecules in a Scanning Tunneling Microscope Junction. Nano Letters, 2018, 18, 152-157.	9.1	32
11	Quantum tunneling in real space: Tautomerization of single porphycene molecules on the (111) surface of Cu, Ag, and Au. Journal of Chemical Physics, 2018, 148, 102330.	3.0	29
12	Theory of SERS enhancement: general discussion. Faraday Discussions, 2017, 205, 173-211.	3.2	27
13	Single molecule Raman spectra of porphycene isotopologues. Nanoscale, 2016, 8, 3337-3349.	5.6	25
14	Spectroscopic and microscopic investigations of tautomerization in porphycenes: condensed phases, supersonic jets, and single molecule studies. Physical Chemistry Chemical Physics, 2017, 19, 4921-4937.	2.8	24
15	Dynamics of hot electron generation in metallic nanostructures: general discussion. Faraday Discussions, 2019, 214, 123-146.	3.2	21
16	Bridging the Gap between Porphyrins and Porphycenes: Substituentâ€Positionâ€Sensitive Tautomerism and Photophysics in mesoâ€Diphenyloctaethylporphyrins. Chemistry - A European Journal, 2011, 17, 10039-10049.	3.3	18
17	Energy relaxation paths in matrix-isolated excited molecules: Comparison of porphycene with dibenzoporphycenes. Chemical Physics Letters, 2005, 416, 128-132.	2.6	17
18	Tailored gold nanostructure arrays as catalysts for oxygen reduction in alkaline media and a single molecule SERS platform. Nanoscale, 2015, 7, 10767-10774.	5.6	15

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19	Structure, Electronic States, and Anion-Binding Properties of Cyclo[4]naphthobipyrroles. Journal of Physical Chemistry A, 2014, 118, 1038-1046.	2.5	14
20	Analytical SERS: general discussion. Faraday Discussions, 2017, 205, 561-600.	3.2	14
21	Resonance Raman spectroscopy study of protonated porphyrin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 173, 350-355.	3.9	14
22	Scouting for strong lightâ€“matter coupling signatures in Raman spectra. Physical Chemistry Chemical Physics, 2021, 23, 16837-16846.	2.8	14
23	1H-Pyrrolo[3,2-h]quinoline: A Benchmark Molecule for Reliable Calculations of Vibrational Frequencies, IR Intensities, and Raman Activities. Journal of Physical Chemistry A, 2012, 116, 11973-11986.	2.5	13
24	Arresting consecutive steps of a photochromic reaction: studies of Î²-thioxoketones combining laser photolysis with NMR detection. Physical Chemistry Chemical Physics, 2014, 16, 9128-9137.	2.8	11
25	Ultrasensitive and towards single molecule SERS: general discussion. Faraday Discussions, 2017, 205, 291-330.	3.2	11
26	Structure, vibrations, and hydrogen bond parameters of dibenzotetraaza[14]annulene. Journal of Molecular Structure, 2010, 976, 215-225.	3.6	10
27	New materials for hot electron generation: general discussion. Faraday Discussions, 2019, 214, 365-386.	3.2	9
28	Applications in catalysis, photochemistry, and photodetection: general discussion. Faraday Discussions, 2019, 214, 479-499.	3.2	5
29	Raman Spectra of Solid Amino Acids: Spectral Correlation Analysis as the First Step Towards Identification by Raman Spectroscopy. Challenges and Advances in Computational Chemistry and Physics, 2014, , 329-354.	0.6	5
30	Matrix isolation spectroscopy and molecular dynamics simulations for 2,7,12,17-tetra-tert-butylporphycene in argon and xenon. Journal of Chemical Physics, 2007, 127, 134501.	3.0	4
31	1,4-Bis(1,3-dioxo-2-indenylidene)cyclohexane: polymorphism, gas phase oxidation and enol form mediated radical formation in the solid state. CrystEngComm, 2011, 13, 3170-3174.	2.6	4
32	Resonance Raman and FTIR spectra of Mg-porphyrazines. Journal of Molecular Structure, 2014, 1058, 197-204.	3.6	4
33	Influence of bulky substituents on single-molecule SERS sensitivity. Journal of Chemical Physics, 2022, 156, 014201.	3.0	4
34	Polymorphism, Hydrogen Bond Properties, and Vibrational Structure of 1H-Pyrrolo[3,2-h]Quinoline Dimers. Journal of Atomic, Molecular, and Optical Physics, 2012, 2012, 1-11.	0.5	3
35	A new algorithm for identification of components in a mixture: application to Raman spectra of solid amino acids. Analyst, The, 2014, 139, 5755-5764.	3.5	3
36	Anharmonicity in a double hydrogen transfer reaction studied in a single porphycene molecule on a Cu(110) surface. Physical Chemistry Chemical Physics, 2018, 20, 12112-12119.	2.8	3

#	Article	IF	Citations
37	SERS Active Surface Based on Auâ€Coated Porous GaN. , 2010, , .		1
38	Solving the Puzzle of Unusual Excited-State Proton Transfer in 2,5-Bis(6-methyl-2-benzoxazolyl)phenol. Journal of Physical Chemistry A, 2022, 126, 1823-1836.	2.5	1
39	Matrix isolation studies of vibrational structure of hemiporphycene. Journal of Molecular Structure, 2020, 1218, 128497.	3.6	0