Judith Langer

List of Publications by Year
in descending order

65 papers	6,274 citations	159585 30 h-index	106344 65 g-index
65 all docs	65 docs citations	65 times ranked	8447 citing authors

#	Article	IF	Citations
1	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
2	Monodisperse Gold Nanotriangles: Size Control, Large-Scale Self-Assembly, and Performance in Surface-Enhanced Raman Scattering. ACS Nano, 2014, 8, 5833-5842.	14.6	496
3	Anisotropic metal nanoparticles for surface enhanced Raman scattering. Chemical Society Reviews, 2017, 46, 3866-3885.	38.1	415
4	Towards Reliable and Quantitative Surfaceâ€Enhanced Raman Scattering (SERS): From Key Parameters to Good Analytical Practice. Angewandte Chemie - International Edition, 2020, 59, 5454-5462.	13.8	324
5	Gold Nanoparticle Plasmonic Superlattices as Surface-Enhanced Raman Spectroscopy Substrates. ACS Nano, 2018, 12, 8531-8539.	14.6	239
6	Sensing using plasmonic nanostructures and nanoparticles. Nanotechnology, 2015, 26, 322001.	2.6	199
7	Surface Enhanced Raman Scattering Encoded Gold Nanostars for Multiplexed Cell Discrimination. Chemistry of Materials, 2016, 28, 6779-6790.	6.7	147
8	Solution processed polydimethylsiloxane/gold nanostar flexible substrates for plasmonic sensing. Nanoscale, 2014, 6, 9817-9823.	5.6	145
9	Janus plasmonicâ€“magnetic goldâ€“iron oxide nanoparticles as contrast agents for multimodal imaging. Nanoscale, 2017, 9, 9467-9480.	5.6	145
10	High-Yield Preparation of Exfoliated 1T-MoS₂ with SERS Activity. Chemistry of Materials, 2019, 31, 5725-5734.	6.7	126
11	Tunable porous nanoallotropes prepared by post-assembly etching of binary nanoparticle superlattices. Science, 2017, 358, 514-518.	12.6	120
12	A General Method for Solvent Exchange of Plasmonic Nanoparticles and Self-Assembly into SERS-Active Monolayers. Langmuir, 2015, 31, 9205-9213.	3.5	119
13	From isolated molecules through clusters and condensates to the building blocks of life. International Journal of Mass Spectrometry, 2008, 277, 4-25.	1.5	113
14	INFRARED SPECTRA OF ISOLATED PROTONATED POLYCYCLIC AROMATIC HYDROCARBON MOLECULES. Astrophysical Journal, 2009, 706, L66-L70.	4.5	103
15	Low energy electron driven reactions in free and bound molecules: from unimolecular processes in the gas phase to complex reactions in a condensed environment. International Journal of Mass Spectrometry, 2004, 233, 267-291.	1.5	94
16	Star-shaped magnetite@gold nanoparticles for protein magnetic separation and SERS detection. RSC Advances, 2014, 4, 3690-3698.	3.6	86
17	Infrared spectra of protonated neurotransmitters: dopamine. Physical Chemistry Chemical Physics, 2011, 13, 2815-2823.	2.8	85
18	Multibranched Goldâ€“Mesoporous Silica Nanoparticles Coated with a Molecularly Imprinted Polymer for Label-Free Antibiotic Surface-Enhanced Raman Scattering Analysis. Chemistry of Materials, 2016, 28, 7947-7954.	6.7	72

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19	Gold Nanostar-Coated Polystyrene Beads as Multifunctional Nanoprobes for SERS Bioimaging. Journal of Physical Chemistry C, 2016, 120, 20860-20868.	3.1	69
20	Hybrid Auâ€“SiO₂ Coreâ€“Satellite Colloids as Switchable SERS Tags. Chemistry of Materials, 2015, 27, 2540-2545.	6.7	60
21	Synthesis of Janus plasmonicâ€“magnetic, starâ€“sphere nanoparticles, and their application in SERS detection. Faraday Discussions, 2016, 191, 47-59.	3.2	58
22	Infrared Spectra of Protonated Neurotransmitters: Serotonin. Journal of Physical Chemistry A, 2010, 114, 13268-13276.	2.5	50
23	Low energy electron driven reactions in single formic acid molecules (HCOOH) and their homogeneous clusters. Physical Chemistry Chemical Physics, 2005, 7, 2212.	2.8	48
24	Bond and site selectivity in dissociative electron attachment to gas phase and condensed phase ethanol and trifluoroethanol. Physical Chemistry Chemical Physics, 2007, 9, 3424.	2.8	46
25	Using SERS Tags to Image the Threeâ€Đimensional Structure of Complex Cell Models. Advanced Functional Materials, 2020, 30, 1909655.	14.9	44
26	Au Nanoparticlesâ€“Mesoporous TiO₂ Thin Films Composites as SERS Sensors: A Systematic Performance Analysis. Journal of Physical Chemistry C, 2018, 122, 13095-13105.	3.1	42
27	The nucleophilic displacement (SN2) reaction F- + CH3Cl â†’ CH3F + Cl- induced by resonant electron capture in gas phase clusters. Physical Chemistry Chemical Physics, 2000, 2, 1001-1005.	2.8	37
28	Negative ion formation from low energy (0â€“15 eV) electron impact to CF2Cl2 under different phase conditions. Journal of Chemical Physics, 2000, 113, 11063-11070.	3.0	37
29	IR Spectrum and Structure of a Protonated Disilane: Probing the Siï£¿Hï£¿Si Proton Bridge. Angewandte Chemie - International Edition, 2013, 52, 1568-1571.	13.8	35
30	Live-Cell Surface-Enhanced Raman Spectroscopy Imaging of Intracellular pH: From Two Dimensions to Three Dimensions. ACS Sensors, 2020, 5, 3194-3206.	7.8	32
31	Infrared spectra of protonated polycyclic aromatic hydrocarbon molecules: Azulene. Journal of Chemical Physics, 2009, 131, 184307.	3.0	30
32	Probing Protonation Sites of Isolated Flavins Using IR Spectroscopy: From Lumichrome to the Cofactor Flavin Mononucleotide. ChemPhysChem, 2014, 15, 2550-2562.	2.1	30
33	Reactions in trifluoroacetic acid (CF3COOH) induced by low energy electron attachment. Chemical Physics Letters, 2006, 419, 228-232.	2.6	29
34	Infrared spectra of the protonated neurotransmitter histamine: competition between imidazolium and ammonium isomers in the gas phase. Physical Chemistry Chemical Physics, 2011, 13, 15644.	2.8	28
35	Infrared and electronic spectra of microhydrated para-dichlorobenzene cluster cations. Chemical Physics Letters, 2010, 485, 49-55.	2.6	27
36	Vibrational Spectra and Structures of Neutral SimCn Clusters (m + n = 6): Sequential Doping of Silicon Clusters with Carbon Atoms. Journal of Physical Chemistry A, 2013, 117, 1158-1163.	2.5	23

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37	SERS in biology/biomedical SERS: general discussion. Faraday Discussions, 2017, 205, 429-456.	3.2	22
38	Infrared and electronic spectroscopy of p-C6H4Cl2+â€“Ln clusters with L=Ar, N2, H2O, and p-C6H4Cl2. International Journal of Mass Spectrometry, 2010, 297, 85-95.	1.5	21
39	PEGylated carbon black as lubricant nanoadditive with enhanced dispersion stability and tribological performance. Tribology International, 2019, 137, 228-235.	5.9	19
40	Low energy (0â€“14 eV) electron impact to CHF2Cl at different phase conditions: medium enhanced desorption of anions. International Journal of Mass Spectrometry, 2000, 195-196, 507-516.	1.5	18
41	IR spectra of resorcinol+â€“Ar cluster cations (n= 1, 2): Evidence for photoionization-induced Ï€ â†’ H isomerization. Chemical Physics Letters, 2009, 474, 7-12.	2.6	18
42	Tunable Nanoparticle and Cell Assembly Using Combined Selfâ€Powered Microfluidics and Microcontact Printing. Advanced Functional Materials, 2016, 26, 8053-8061.	14.9	18
43	Reactions in nanofilms of trifluoroacetic acid (CF3COOH) driven by low energy electrons. International Journal of Mass Spectrometry, 2006, 254, 63-69.	1.5	17
44	Dissociative electron attachment to C2F5 radicals. Journal of Chemical Physics, 2012, 137, 054310.	3.0	17
45	Nucleation of Amyloid Oligomers by RepAâ€WH1â€Prionoidâ€Functionalized Gold Nanorods. Angewandte Chemie - International Edition, 2016, 55, 11237-11241.	13.8	17
46	Surface Enhanced Raman Scattering and Gated Materials for Sensing Applications: The Ultrasensitive Detection of <i>Mycoplasma</i> and Cocaine. Chemistry - A European Journal, 2016, 22, 13488-13495.	3.3	17
47	Infrared Spectra and Structures of Silverâ€“PAH Cation Complexes. Journal of Physical Chemistry Letters, 2011, 2, 2052-2056.	4.6	15
48	Real-time dynamic SERS detection of galectin using glycan-decorated gold nanoparticles. Faraday Discussions, 2017, 205, 363-375.	3.2	15
49	Nanocomposite Scaffolds for Monitoring of Drug Diffusion in Three-Dimensional Cell Environments by Surface-Enhanced Raman Spectroscopy. Nano Letters, 2021, 21, 8785-8793.	9.1	15
50	Infrared spectrum of the disilane cation (Si2H6+) from Ar-tagging spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 2774.	2.8	14
51	Analytical SERS: general discussion. Faraday Discussions, 2017, 205, 561-600.	3.2	14
52	IR spectra of phenol+â€“(O2)n cation clusters (n=1â€“4): Hydrogen bonding versus stacking interactions. Chemical Physics Letters, 2008, 457, 298-302.	2.6	13
53	Incipient chemical bond formation of Xe to a cationic silicon cluster: Vibrational spectroscopy and structure of the Si4Xe+ complex. Chemical Physics Letters, 2013, 557, 49-52.	2.6	13
54	Vibrational spectra and structures of bare and Xe-tagged cationic SinOm+ clusters. Journal of Chemical Physics, 2014, 141, 104313.	3.0	13

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55	Chemical reactions in clusters of trifluoroacetic acid (CF3COOH) triggered by electrons at sub-excitation energy (<2eV). International Journal of Mass Spectrometry, 2006, 249-250, 477-483.	1.5	11
56	Electron capture by pentafluoronitrobenzene and pentafluorobenzonitrile. Physical Chemistry Chemical Physics, 2008, 10, 1523.	2.8	10
57	Monitoring Chemical Reactions with SERS-Active Ag-Loaded Mesoporous TiO₂ Films. Analytical Chemistry, 2020, 92, 13656-13660.	6.5	9
58	Low energy (0â€“15 eV) electron stimulated reactions in single 1,2-C2F4Cl2 molecules and clusters. International Journal of Mass Spectrometry, 2003, 223-224, 193-204.	1.5	8
59	Reactions in clusters of acetone and fluorinated acetones triggered by low energy electrons. International Journal of Mass Spectrometry, 2009, 280, 107-112.	1.5	7
60	Combination of Live Cell Surface-Enhanced Raman Scattering Imaging with Chemometrics to Study Intracellular Nanoparticle Dynamics. ACS Sensors, 2022, 7, 1747-1756.	7.8	7
61	Electron attachment to C2F5I molecules and clusters. International Journal of Mass Spectrometry, 2002, 220, 211-220.	1.5	6
62	Electron attachment to chloronitrobenzene: Formation of negative ions from gas phase and condensed phase molecules. Chemical Physics Letters, 2008, 455, 139-144.	2.6	4
63	Auf dem Weg zur verlÃsslichen und quantitativen SERSâ€Spektroskopie: von SchlÃ¼sselparametern zur guten analytischen Praxis. Angewandte Chemie, 2020, 132, 5496-5505.	2.0	4
64	Energy balance in dissociative electron attachment to C2F5I. Physical Chemistry Chemical Physics, 2002, 4, 5105-5109.	2.8	3
65	Reactions in Fluorinated Acetic Acid Esters Triggered by Slow Electrons: Bond Cleavages, Hydrogen Transfer Reactions and Loss of Halocarbons. Zeitschrift Fur Physikalische Chemie, 2008, 222, 1185-1196.	2.8	3