Manash Ghosh

List of Publications by Year
in descending order

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42	1,042	471509	414414
papers	citations	17 h-index	32 g-index

42	42	42	1015
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stand-off Raman spectroscopic detection of minerals on planetary surfaces. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2391-2407.	3.9	187
2	Remote Pulsed Laser Raman Spectroscopy System for Mineral Analysis on Planetary Surfaces to 66 Meters. Applied Spectroscopy, 2002, 56, 699-705.	2.2	95
3	Surface enhanced Raman scattering of 2,2â€² biquinoline adsorbed on colloidal silver particles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2000, 56, 2107-2115.	3.9	80
4	Study of silver nanoparticleâ€“hemoglobin interaction and composite formation. Colloids and Surfaces B: Biointerfaces, 2011, 88, 141-149.	5.0	72
5	Adsorptive parameters and influence of hot geometries on the SER(R) S spectra of methylene blue molecules adsorbed on gold nanocolloidal particles. Journal of Raman Spectroscopy, 2015, 46, 451-461.	2.5	64
6	Concentration-dependent surface-enhanced Raman scattering of 2-benzoylpyridine adsorbed on colloidal silver particles. Journal of Colloid and Interface Science, 2004, 277, 121-127.	9.4	61
7	pH-Dependent Surface-Enhanced Raman Scattering of 8-Hydroxy Quinoline Adsorbed on Silver Hydrosol. Journal of Colloid and Interface Science, 2000, 228, 372-378.	9.4	50
8	Adsorption of 2-Aminobenzothiazole on Colloidal Silver Particles:â€‰ An Experimental and Theoretical Surface-Enhanced Raman Scattering Study. Journal of Physical Chemistry B, 2005, 109, 12861-12867.	2.6	35
9	Experimental and Theoretical Surface Enhanced Raman Scattering Study of 2-Amino-4-methylbenzothiazole Adsorbed on Colloidal Silver Particles. Journal of Physical Chemistry B, 2005, 109, 22536-22544.	2.6	33
10	Near-Field Response on the Far-Field Wavelength-Scanned Surface-Enhanced Raman Spectroscopic Study of Methylene Blue Adsorbed on Gold Nanocolloidal Particles. Journal of Physical Chemistry C, 2018, 122, 10981-10991.	3.1	33
11	Concentration-dependent surface-enhanced resonance Raman scattering of a porphyrin derivative adsorbed on colloidal silver particles. Journal of Colloid and Interface Science, 2003, 263, 318-326.	9.4	31
12	Adsorption of 3-Thiophene Carboxylic Acid on Silver Nanocolloids: FTIR, Raman, and SERS Study Aided by Density Functional Theory. Journal of Physical Chemistry C, 2011, 115, 14309-14324.	3.1	30
13	Adsorption of 2-amino-6-methylbenzothiazole on colloidal silver particles: Quantum chemical calculations and surface enhanced Raman scattering study. Chemical Physics, 2006, 330, 172-183.	1.9	22
14	Genesis of Enhanced Raman Bands in SERS Spectra of 2-Mercaptoimidazole: FTIR, Raman, DFT, and SERS. Journal of Physical Chemistry A, 2012, 116, 10934-10947.	2.5	22
15	Adsorption of 3- and 4-benzoylpyridine on colloidal silver particles: a surface-enhanced Raman scattering study. Journal of Raman Spectroscopy, 2004, 35, 1023-1033.	2.5	21
16	Infused selfâ€assembly on Langmuirâ€“Blodgett Film: Fabrication of highly efficient SERS active substrates with controlled plasmonic aggregates. Journal of Raman Spectroscopy, 2019, 50, 330-344.	2.5	20
17	Silver coated gold nanocolloids entrapped in organized Langmuirâ€“Blodgett Film of stearic acid: Potential evidence of a new SERS active substrate. Applied Surface Science, 2016, 362, 364-373.	6.1	18
18	Crystalline state photoreaction in 4-methylcinnamic acid: a Raman phonon spectroscopic study. Journal of Raman Spectroscopy, 1998, 29, 263-267.	2.5	16

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19	Surface-Enhanced Raman Scattering of Rhodamine 123 in Silver Hydrosols and in Langmuirâ€“Blodgett Films on Silver Islands. Journal of Colloid and Interface Science, 2001, 235, 317-324.	9.4	16
20	IR, Raman and SERS spectra of 3,5-dinitrosalicylic acid. Journal of Raman Spectroscopy, 2007, 38, 323-331.	2.5	16
21	Probing blood plasma samples for the detection of diabetes using SERS aided by PCA and LDA multivariate data analyses. New Journal of Chemistry, 2021, 45, 2670-2682.	2.8	14
22	Charge transfer mechanism and the adsorptive stance of methylene blue on gold nanocolloids: a visâ€Ââ€•vis aftermath. Journal of Raman Spectroscopy, 2017, 48, 38-45.	2.5	11
23	Exploring the pH dependent SERS spectra of 2-mercaptoimidazole molecule adsorbed on silver nanocolloids in the light of Albrechtâ€™s â€œAâ€•term and Herzbergâ€“Teller charge transfer contribution. Journal of Colloid and Interface Science, 2013, 399, 33-45.	9.4	10
24	Adsorption and trace detection of pharmacologically significant 5-methylthio-1, 3, 4-thiadiazole-2-thiol molecule adsorbed on silver nanocolloids and understanding the role of Albrechtâ€™s â€œAâ€•and Herzbergâ€“Teller contributions in the SERS spectra. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 135, 935-946.	3.9	10
25	Effects of surface topography on SERS response: Correlating nanoscopy with spectroscopy. Applied Surface Science, 2018, 439, 1-10.	6.1	10
26	How hottest geometries and adsorptive parameters influence the SER(R)S spectra of Methylene Blue molecules adsorbed on nanocolloidal gold particles of varied sizes?. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 151, 796-806.	3.9	9
27	Selfâ€•assembly of silver nanocolloids in the Langmuirâ€“Blodgett Film of stearic acid: Evidence of an efficient SERS sensing platform. Journal of Raman Spectroscopy, 2016, 47, 168-176.	2.5	9
28	SERS active substrates of gold nanoparticles embedded in the pool of 5-CB liquid crystal molecules organized in Langmuirâ€“Reverse Schaefer films: A facile fabrication route to make the topological defects useful. Applied Surface Science, 2019, 484, 1263-1273.	6.1	9
29	The vibrational assignment of phenanthridine molecule based on normal coordinate analysis and DFT. Journal of Raman Spectroscopy, 2008, 39, 1878-1889.	2.5	7
30	Quantum-mechanical DFT calculation supported Raman spectroscopic study of some amino acids in bovine insulin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 129, 345-351.	3.9	6
31	How SERS responses of probe molecules depend on topographies of the substrates? A vis-Ã-vis exploration. Vibrational Spectroscopy, 2020, 107, 103031.	2.2	5
32	Spectroscopic study of photoreaction dynamics inp-bromo cinnamic acid. Journal of Chemical Sciences, 1995, 107, 149-155.	1.5	4
33	Spectroscopic study of solid-state photoreaction in organic crystals: photopolymerization of the dimethyl ester ofp-phenylenediacrylic acid. Journal of Raman Spectroscopy, 1998, 29, 807-811.	2.5	4
34	Self-assembly of metal nanocolloids entrapped in Langmuir Blodgett Film templates: Evidence of efficient SERS sensing platforms. Materials Today: Proceedings, 2018, 5, 10071-10076.	1.8	3
35	N-hetero atomic effect on the photophysics of 2,2â€²-dipyridylketone. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 74, 1165-1172.	3.9	2
36	Excited Electronic States and Raman Spectra of 2-Benzoylpyridine. Applied Spectroscopy, 2013, 67, 1447-1462.	2.2	2

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37	Spectroscopic and Raman excitation profile studies of 3-benzoylpyridine. Indian Journal of Physics, 2017, 91, 779-802.	1.8	1
38	Decoding the topographical features of more realistic SERS active substrates in presence of the probe molecules from statistical considerations: An in-depth study bridging Microscopy with Spectroscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127319.	4.7	1
39	Crystalline state photoreaction in 4-methylcinnamic acid: a Raman phonon spectroscopic study. , 1998, 29, 263.		1
40	Spectroscopic study of solid-state photoreaction in organic crystals: photopolymerization of the dimethyl ester of p-phenylenediacrylic acid. , 1998, 29, 807.		1
41	Spectroscopic study of solidâ€state photoreaction in organic crystals: photopolymerization of the dimethyl ester of p-phenylenediacrylic acid. Journal of Raman Spectroscopy, 1998, 29, 807-811.	2.5	1
42	Spectroscopic study of solid state photoreaction of di n-propyl ester of dicyano p-phenylenediacrylic acid. Journal of Polymer Science Part A, 1994, 32, 797-801.	2.3	0