Rajapandiyan Panneerselvam

List of Publications by Year
in descending order

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29 papers	3,278 citations	393982 19 h-index	500791 28 g-index
30 all docs	30 docs citations	30 times ranked	4553 citing authors

#	Article	IF	Citations
1	Nanostructure-based plasmon-enhanced Raman spectroscopy for surface analysis of materials. Nature Reviews Materials, 2016, 1, .	23.3	1,229
2	Coreâ€“Shell Nanoparticle-Enhanced Raman Spectroscopy. Chemical Reviews, 2017, 117, 5002-5069.	23.0	819
3	Surface-enhanced Raman spectroscopy: bottlenecks and future directions. Chemical Communications, 2018, 54, 10-25.	2.2	195
4	â€œSmartâ€•Ag Nanostructures for Plasmon-Enhanced Spectroscopies. Journal of the American Chemical Society, 2015, 137, 13784-13787.	6.6	157
5	In Situ Monitoring of Electrooxidation Processes at Gold Single Crystal Surfaces Using Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. Journal of the American Chemical Society, 2015, 137, 7648-7651.	6.6	118
6	Electrochemical Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy: Correlating Structural Information and Adsorption Processes of Pyridine at the Au(hkl) Single Crystal/Solution Interface. Journal of the American Chemical Society, 2015, 137, 2400-2408.	6.6	93
7	Advances of surface-enhanced Raman and IR spectroscopies: from nano/microstructures to macro-optical design. Light: Science and Applications, 2021, 10, 161.	7.7	91
8	Microwave-Assisted Synthesis of Highly Dispersed PtCu Nanoparticles on Three-Dimensional Nitrogen-Doped Graphene Networks with Remarkably Enhanced Methanol Electrooxidation. ACS Applied Materials & Interfaces, 2016, 8, 33673-33680.	4.0	81
9	Rapid detection of melamine in milk liquid and powder by surface-enhanced Raman scattering substrate array. Food Control, 2015, 56, 155-160.	2.8	50
10	A facile method for the synthesis of large-size Ag nanoparticles as efficient SERS substrates. Journal of Raman Spectroscopy, 2016, 47, 662-667.	1.2	49
11	Stable 16.2% Efficient Surface Plasmonâ€Enhanced Graphene/GaAs Heterostructure Solar Cell. Advanced Energy Materials, 2016, 6, 1600822.	10.2	42
12	Microfluidics and surface-enhanced Raman spectroscopy, a winâ€“win combination?. Lab on A Chip, 2022, 22, 665-682.	3.1	42
13	Photochemical method for decoration of silver nanoparticles on filter paper substrate for SERS application. Journal of Raman Spectroscopy, 2014, 45, 574-580.	1.2	40
14	Sensitive Cylindrical SERS Substrate Array for Rapid Microanalysis of Nucleobases. Analytical Chemistry, 2012, 84, 10277-10282.	3.2	32
15	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.	1.5	28
16	Promise of nano-carbon to the next generation sustainable agriculture. Carbon, 2022, 188, 461-481.	5.4	27
17	Large scale synthesis of pinholeâ€free shellâ€isolated nanoparticles (SHINs) using improved atomic layer deposition (ALD) method for practical applications. Journal of Raman Spectroscopy, 2015, 46, 1200-1204.	1.2	26
18	Shell-isolated nanoparticle-enhanced Raman spectroscopy study of the adsorption behaviour of DNA bases on Au(111) electrode surfaces. Analyst, The, 2016, 141, 3731-3736.	1.7	23

#	Article	IF	Citations
19	Shellâ€Isolated Nanoparticleâ€Enhanced Raman Spectroscopy at Singleâ€Crystal Electrode Surfaces. Advanced Optical Materials, 2016, 4, 1144-1158.	3.6	20
20	Quantitative detection using twoâ€dimension shellâ€isolated nanoparticle film. Journal of Raman Spectroscopy, 2017, 48, 919-924.	1.2	20
21	A microfluidic device enabling surface-enhanced Raman spectroscopy at chip-integrated multifunctional nanoporous membranes. Analytical and Bioanalytical Chemistry, 2020, 412, 267-277.	1.9	19
22	Raman Spectroscopic Detection in Continuous Microflow Using a Chip-Integrated Silver Electrode as an Electrically Regenerable Surface-Enhanced Raman Spectroscopy Substrate. Analytical Chemistry, 2019, 91, 9844-9851.	3.2	18
23	A rapid and simple chemical method for the preparation of Ag colloids for surface-enhanced Raman spectroscopy using the Ag mirror reaction. Vibrational Spectroscopy, 2018, 98, 1-7.	1.2	15
24	Potential dependent thiocyanate adsorption on gold electrodes: a comparison study between SERS and SHINERS. Journal of Raman Spectroscopy, 2016, 47, 1207-1212.	1.2	14
25	In-situ electrochemical shell-isolated Ag nanoparticles-enhanced Raman spectroscopy study of adenine adsorption on smooth Ag electrodes. Electrochimica Acta, 2016, 199, 388-393.	2.6	11
26	Self-assembly of subwavelength nanostructures with symmetry breaking in solution. Nanoscale, 2016, 8, 2951-2959.	2.8	10
27	Theoretical study of normal Raman spectra and SERS of benzyl chloride and benzyl radical on silver electrodes. Journal of Raman Spectroscopy, 2017, 48, 53-63.	1.2	8
28	Correction: Shell-isolated nanoparticle-enhanced Raman spectroscopy study of the adsorption behaviour of DNA bases on Au(111) electrode surfaces. Analyst, The, 2016, 141, 3925-3925.	1.7	0
29	Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. , 2018, , 189-230.		0