Rajapandiyan Panneerselvam

List of Publications by Year
in descending order

29 papers	3,278 citations	394421 19 h-index	501196 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, .	48.7	1,229
2	Coreâ€“Shell Nanoparticle-Enhanced Raman Spectroscopy. Chemical Reviews, 2017, 117, 5002-5069.	47.7	819
3	Surface-enhanced Raman spectroscopy: bottlenecks and future directions. Chemical Communications, 2018, 54, 10-25.	4.1	195
4	â€œSmartâ€•Ag Nanostructures for Plasmon-Enhanced Spectroscopies. Journal of the American Chemical Society, 2015, 137, 13784-13787.	13.7	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.	13.7	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.	13.7	93
7	Advances of surface-enhanced Raman and IR spectroscopies: from nano/microstructures to macro-optical design. Light: Science and Applications, 2021, 10, 161.	16.6	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.	8.0	81
9	Rapid detection of melamine in milk liquid and powder by surface-enhanced Raman scattering substrate array. Food Control, 2015, 56, 155-160.	5.5	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.	2.5	49
11	Stable 16.2% Efficient Surface Plasmonâ€Enhanced Graphene/GaAs Heterostructure Solar Cell. Advanced Energy Materials, 2016, 6, 1600822.	19.5	42
12	Microfluidics and surface-enhanced Raman spectroscopy, a winâ€“win combination?. Lab on A Chip, 2022, 22, 665-682.	6.0	42
13	Photochemical method for decoration of silver nanoparticles on filter paper substrate for SERS application. Journal of Raman Spectroscopy, 2014, 45, 574-580.	2.5	40
14	Sensitive Cylindrical SERS Substrate Array for Rapid Microanalysis of Nucleobases. Analytical Chemistry, 2012, 84, 10277-10282.	6.5	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.	3.1	28
16	Promise of nano-carbon to the next generation sustainable agriculture. Carbon, 2022, 188, 461-481.	10.3	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.	2.5	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.	3.5	23

#	Article	IF	Citations
19	Shellâ€Isolated Nanoparticleâ€Enhanced Raman Spectroscopy at Singleâ€Crystal Electrode Surfaces. Advanced Optical Materials, 2016, 4, 1144-1158.	7.3	20
20	Quantitative detection using twoâ€dimension shellâ€isolated nanoparticle film. Journal of Raman Spectroscopy, 2017, 48, 919-924.	2.5	20
21	A microfluidic device enabling surface-enhanced Raman spectroscopy at chip-integrated multifunctional nanoporous membranes. Analytical and Bioanalytical Chemistry, 2020, 412, 267-277.	3.7	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.	6.5	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.	2.2	15
24	Potential dependent thiocyanate adsorption on gold electrodes: a comparison study between SERS and SHINERS. Journal of Raman Spectroscopy, 2016, 47, 1207-1212.	2.5	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.	5.2	11
26	Self-assembly of subwavelength nanostructures with symmetry breaking in solution. Nanoscale, 2016, 8, 2951-2959.	5.6	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.	2.5	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.	3.5	0
29	Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. , 2018, , 189-230.		0