

# 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	Promise of nano-carbon to the next generation sustainable agriculture. Carbon, 2022, 188, 461-481.	5.4	27
2	Microfluidics and surface-enhanced Raman spectroscopy, a win-win combination?. Lab on A Chip, 2022, 22, 665-682.	3.1	42
3	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
4	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
5	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
6	Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. , 2018, , 189-230.		0
7	Surface-enhanced Raman spectroscopy: bottlenecks and future directions. Chemical Communications, 2018, 54, 10-25.	2.2	195
8	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
9	Core-Shell Nanoparticle-Enhanced Raman Spectroscopy. Chemical Reviews, 2017, 117, 5002-5069.	23.0	819
10	Quantitative detection using two-dimensional shell-isolated nanoparticle film. Journal of Raman Spectroscopy, 2017, 48, 919-924.	1.2	20
11	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
12	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
13	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
14	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
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	Stable 16.2% Efficient Surface Plasmon-Enhanced Graphene/GaAs Heterostructure Solar Cell. Advanced Energy Materials, 2016, 6, 1600822.	10.2	42
17	Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy at Single-Crystal Electrode Surfaces. Advanced Optical Materials, 2016, 4, 1144-1158.	3.6	20
18	Nanostructure-based plasmon-enhanced Raman spectroscopy for surface analysis of materials. Nature Reviews Materials, 2016, 1, .	23.3	1,229

#	ARTICLE	IF	CITATIONS
19	Microwave-Assisted Synthesis of Highly Dispersed PtCu Nanoparticles on Three-Dimensional Nitrogen-Doped Graphene Networks with Remarkably Enhanced Methanol Electrooxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 33673-33680.	4.0	81
20	Self-assembly of subwavelength nanostructures with symmetry breaking in solution. <i>Nanoscale</i> , 2016, 8, 2951-2959.	2.8	10
21	Shell-isolated nanoparticle-enhanced Raman spectroscopy study of the adsorption behaviour of DNA bases on Au(111) electrode surfaces. <i>Analyst</i> , 2016, 141, 3731-3736.	1.7	23
22	In-situ electrochemical shell-isolated Ag nanoparticles-enhanced Raman spectroscopy study of adenine adsorption on smooth Ag electrodes. <i>Electrochimica Acta</i> , 2016, 199, 388-393.	2.6	11
23	Large scale synthesis of pinhole-free shell-isolated nanoparticles (SHINs) using improved atomic layer deposition (ALD) method for practical applications. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 1200-1204.	1.2	26
24	Electrochemical Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy: Correlating Structural Information and Adsorption Processes of Pyridine at the Au(hkl) Single Crystal/Solution Interface. <i>Journal of the American Chemical Society</i> , 2015, 137, 2400-2408.	6.6	93
25	In Situ Monitoring of Electrooxidation Processes at Gold Single Crystal Surfaces Using Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 7648-7651.	6.6	118
26	Rapid detection of melamine in milk liquid and powder by surface-enhanced Raman scattering substrate array. <i>Food Control</i> , 2015, 56, 155-160.	2.8	50
27	Smart Ag Nanostructures for Plasmon-Enhanced Spectroscopies. <i>Journal of the American Chemical Society</i> , 2015, 137, 13784-13787.	6.6	157
28	Photochemical method for decoration of silver nanoparticles on filter paper substrate for SERS application. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 574-580.	1.2	40
29	Sensitive Cylindrical SERS Substrate Array for Rapid Microanalysis of Nucleobases. <i>Analytical Chemistry</i> , 2012, 84, 10277-10282.	3.2	32