Arumugam Sivanesan

List of Publications by Year
in descending order

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35 papers	1,087 citations	331259 21 h-index	395343 33 g-index
37 all docs	37 docs citations	37 times ranked	1768 citing authors

#	Article	IF	Citations
1	Nanostructured silverâ€“gold bimetallic SERS substrates for selective identification of bacteria in human blood. Analyst, The, 2014, 139, 1037.	1.7	110
2	Recent Progress on the Sensing of Pathogenic Bacteria Using Advanced Nanostructures. Bulletin of the Chemical Society of Japan, 2019, 92, 216-244.	2.0	108
3	Electrocatalytic oxidation of ascorbic acid using a single layer of gold nanoparticles immobilized on 1,6-hexanedithiol modified gold electrode. Electrochimica Acta, 2007, 52, 8118-8124.	2.6	72
4	Rapid detection of TNT in aqueous media by selective label free surface enhanced Raman spectroscopy. Talanta, 2015, 134, 732-738.	2.9	67
5	Potentialâ€Dependent Surfaceâ€Enhanced Resonance Raman Spectroscopy at Nanostructured TiO₂: A Case Study on Cytochrome b₅. Small, 2013, 9, 4175-4181.	5.2	63
6	Determination of l-dopa using electropolymerized 3,3â€²,3â€³,3â€´-tetraaminophthalocyanatonickel(II) film on glassy carbon electrode. Biosensors and Bioelectronics, 2007, 23, 708-713.	5.3	52
7	Functionalized Ag nanoparticles with tunable optical properties for selective protein analysis. Chemical Communications, 2011, 47, 3553.	2.2	46
8	Rapid detection of mercury contamination in water by surface enhanced Raman spectroscopy. RSC Advances, 2017, 7, 21567-21575.	1.7	40
9	Electrochemical current rectificationâ€“a novel signal amplification strategy for highly sensitive and selective aptamer-based biosensor. Biosensors and Bioelectronics, 2015, 66, 62-68.	5.3	34
10	Rapid isolation and detection of erythropoietin in blood plasma by magnetic core gold nanoparticles and portable Raman spectroscopy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 633-641.	1.7	33
11	Towards interference free HPLC-SERS for the trace analysis of drug metabolites in biological fluids. Journal of Pharmaceutical and Biomedical Analysis, 2017, 136, 38-43.	1.4	33
12	Molecular recognition of 2,4,6-trinitrotoluene by 6-aminohexanethiol and surface-enhanced Raman scattering sensor. Sensors and Actuators B: Chemical, 2015, 221, 273-280.	4.0	32
13	Amino Group Position Dependent Orientation of Self-Assembled Monomolecular Films of Tetraaminophthalocyanatocobalt(II) on Au Surfaces. Langmuir, 2008, 24, 2186-2190.	1.6	31
14	Reproducible and label-free biosensor for the selective extraction and rapid detection of proteins in biological fluids. Journal of Nanobiotechnology, 2015, 13, 43.	4.2	30
15	Amino group positions dependent morphology and coverage of electropolymerized metallophthalocyanine (M=Ni and Co) films on electrode surfaces. Electrochimica Acta, 2008, 53, 6629-6635.	2.6	29
16	Fabrication of optochemical and electrochemical sensors using thin films of porphyrin and phthalocyanine derivatives. Journal of Chemical Sciences, 2012, 124, 1315-1325.	0.7	27
17	Complementary Surface-Enhanced Resonance Raman Spectroscopic Biodetection of Mixed Protein Solutions by Chitosan- and Silica-Coated Plasmon-Tuned Silver Nanoparticles. Analytical Chemistry, 2012, 84, 5759-5764.	3.2	24
18	A homogeneous surface-enhanced Raman scattering platform for ultra-trace detection of trinitrotoluene in the environment. Analytical Methods, 2015, 7, 3863-3868.	1.3	24

#	Article	IF	Citations
19	Selective Electrochemical Epinephrine Sensor Using Selfâ€Assembled Monomolecular Film of 1,8,15,22â€Tetraaminophthalocyanatonickel(II) on Gold Electrode. Electroanalysis, 2008, 20, 2340-2346.	1.5	22
20	Adsorption thermodynamics and kinetics study for the self-assembly of 1,8,15,22-tetraaminophthalocyanatocobalt(II) on glassy carbon surface. Electrochimica Acta, 2009, 54, 7458-7463.	2.6	22
21	Highly Sensitive Electrochemical Sensor for Nitric Oxide Using the Selfâ€Assembled Monolayer of 1,8,15,22â€Tetraaminophthalocyanatocobalt(II) on Glassy Carbon Electrode. Electroanalysis, 2010, 22, 639-644.	1.5	22
22	Tailored silica coated Ag nanoparticles for non-invasive surface enhanced Raman spectroscopy of biomolecular targets. RSC Advances, 2012, 2, 805-808.	1.7	20
23	Plasmon-Tuned Silver Colloids for SERRS Analysis of Methemoglobin with Preserved Nativity. Langmuir, 2012, 28, 14357-14363.	1.6	20
24	A highly selective and simultaneous determination of ascorbic acid, uric acid and nitrite based on a novel poly-N-acetyl-<scp>l</scp>-methionine (poly-NALM) thin film. RSC Advances, 2016, 6, 96898-96907.	1.7	20
25	An electrochemical biosensor for the rapid detection of erythropoietin in blood. Talanta, 2018, 189, 636-640.	2.9	18
26	Charge-Transfer Interaction of Aromatic Thiols with 2,3-Dichloro-5,6-dicyano-p-benzoquinone:â€‰ Spectral and Quantum Mechanical Studies. Journal of Physical Chemistry A, 2007, 111, 12086-12092.	1.1	17
27	Towards improved precision in the quantification of surface-enhanced Raman scattering (SERS) enhancement factors: a renewed approach. Analyst, The, 2015, 140, 489-496.	1.7	13
28	Tunable Electric Field Enhancement and Redox Chemistry on TiO₂ Island Films via Covalent Attachment to Ag or Au Nanostructures. Journal of Physical Chemistry C, 2013, 117, 11866-11872.	1.5	10
29	Investigation of thiophene flanked diketopyrrolopyrrole monomers with straight and branched alkyl chains and their electropolymerization study. Journal of Materials Research, 2017, 32, 2707-2718.	1.2	8
30	Regenerative silver nanoparticles for SERRS investigation of metmyoglobin with conserved heme pocket. RSC Advances, 2013, 3, 6839.	1.7	7
31	A new class of electropolymerized conducting film from the pyrimidine family for the simultaneous determination of ascorbic acid and dopamine. RSC Advances, 2016, 6, 97391-97398.	1.7	7
32	Generating monomeric 5-coordinated microperoxidase-11 using carboxylic acid functionalized silver nanoparticles: A surface-enhanced resonance Raman scattering analysis. Colloids and Surfaces B: Biointerfaces, 2016, 146, 722-730.	2.5	7
33	Rapid Electrochemical Nanosensing of S100ÃŸin Blood. Journal of the Electrochemical Society, 2020, 167, 067518.	1.3	7
34	Electrochemical and spectral studies of self-assembled monolayer of 1,8,15,22-tetraaminophthalocyanatocobalt(II) on indium tin oxide surface. Journal of Electroanalytical Chemistry, 2009, 634, 64-67.	1.9	5
35	Electrochemical pathway for the quantification of SERS enhancement factor. Electrochemistry Communications, 2014, 49, 103-106.	2.3	5