Sayandev Chatterjee

List of Publications by Year
in descending order

59	1,018	430843	501174
papers	citations	18 h-index	28 g-index

66	66	66	1249
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vapoluminescence hysteresis in a platinum(II) salt-based humidity sensor: Mapping the vapochromic response to water vapor. Sensors and Actuators B: Chemical, 2022, 359, 131502.	7.8	4
2	A microfluidic electrochemical cell for studying the corrosion of uranium dioxide (UO₂). RSC Advances, 2022, 12, 19350-19358.	3.6	2
3	A colorimetric/luminescence sensor for detecting MeCN in water: Towards direct detection of dissolved organic contaminants. Sensors and Actuators B: Chemical, 2021, 329, 129207.	7.8	12
4	Porosity induced rigidochromism in platinum(<scp>ii</scp>) terpyridyl luminophores immobilized at silica composites. Journal of Materials Chemistry C, 2021, 9, 6193-6207.	5.5	5
5	pH-Mediated Colorimetric and Luminescent Sensing of Aqueous Nitrate Anions by a Platinum(II) Luminophore@Mesoporous Silica Composite. ACS Applied Materials & Interfaces, 2021, 13, 16197-16209.	8.0	11
6	ESSENCE â€“ A rapid, shear-enhanced, flow-through, capacitive electrochemical platform for rapid detection of biomolecules. Biosensors and Bioelectronics, 2021, 182, 113163.	10.1	14
7	Iodine immobilization by materials through sorption and redox-driven processes: A literature review. Science of the Total Environment, 2020, 716, 132820.	8.0	59
8	Technetium immobilization by materials through sorption and redox-driven processes: A literature review. Science of the Total Environment, 2020, 716, 132849.	8.0	19
9	Understanding Time Dependence on Zinc Metalâ€“Organic Framework Growth Using in Situ Liquid Secondary Ion Mass Spectrometry. ACS Applied Materials & Interfaces, 2020, 12, 5090-5098.	8.0	10
10	Evaluation of materials for iodine and technetium immobilization through sorption and redox-driven processes. Science of the Total Environment, 2020, 716, 136167.	8.0	16
11	A digital imaging method for evaluating the kinetics of vapochromic response. Talanta, 2020, 209, 120520.	5.5	7
12	Phase transformation induced mechanochromism in a platinum salt: a tale of two polymorphs. Chemical Communications, 2020, 56, 10175-10178.	4.1	21
13	Characterization of spent Purolite A530E resin with implications for long-term radioactive contaminant removal. Journal of Environmental Chemical Engineering, 2020, 8, 104155.	6.7	8
14	Studying the UO2 Electrochemistry In Situ Using SEM. Microscopy and Microanalysis, 2020, 26, 1790-1792.	0.4	0
15	Identification and Quantification of Technetium Species in Hanford Waste Tank AN-102. Analytical Chemistry, 2020, 92, 13961-13970.	6.5	14
16	Mechanisms of Plutonium Redox Reactions in Nitric Acid Solutions. Inorganic Chemistry, 2020, 59, 6826-6838.	4.0	7
17	Metalâ€“Organic Framework-Based Microfluidic Impedance Sensor Platform for Ultrasensitive Detection of Perfluorooctanesulfonate. ACS Applied Materials & Interfaces, 2020, 12, 10503-10514.	8.0	77
18	Redox-Based Electrochemical Affinity Sensor for Detection of Aqueous Pertechnetate Anion. ACS Sensors, 2020, 5, 674-685.	7.8	6

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19	Probing the Radial Chemistry of Getter Components in Light Water Reactors via Controlled Electrochemical Dissolution. ACS Omega, 2020, 5, 13578-13587.	3.5	1
20	Insight into Fluorocarbon Adsorption in Metal-Organic Frameworks via Experiments and Molecular Simulations. Scientific Reports, 2019, 9, 10289.	3.3	34
21	Improving in situ liquid SEM imaging of particles. Surface and Interface Analysis, 2019, 51, 1325-1331.	1.8	12
22	An electrochemical technique for controlled dissolution of zirconium based components of light water reactors. RSC Advances, 2019, 9, 1869-1881.	3.6	1
23	Redox and volatility of Tc(CO)3+ compounds in waste glass melting. Journal of Nuclear Materials, 2019, 515, 199-205.	2.7	6
24	Probing the Sorption of Perfluorooctanesulfonate Using Mesoporous Metalâ€“Organic Frameworks from Aqueous Solutions. Inorganic Chemistry, 2019, 58, 8339-8346.	4.0	51
25	Improving the sensitivity of electrochemical sensors through a complementary luminescent mode: A new spectroelectrochemical approach. Sensors and Actuators B: Chemical, 2019, 284, 663-674.	7.8	21
26	InorganicBaâ€“Snnanocomposite materials for sulfate sequestration from complex aqueous solutions. Environmental Science: Nano, 2018, 5, 890-903.	4.3	5
27	Fabrication of oriented crystals as force measurement tips via focused ion beam and microlithography methods. Surface and Interface Analysis, 2018, 50, 117-122.	1.8	2
28	Method for the in situ Measurement of pH and Alteration Extent for Aluminoborosilicate Glasses Using Raman Spectroscopy. Analytical Chemistry, 2018, 90, 11812-11819.	6.5	8
29	Surprising formation of quasi-stable Tc(<scp>vi</scp>) in high ionic strength alkaline media. Inorganic Chemistry Frontiers, 2018, 5, 2081-2091.	6.0	15
30	Spectroscopic Characterization of Aqua [fac-Tc(CO)₃]⁺ Complexes at High Ionic Strength. Inorganic Chemistry, 2018, 57, 6903-6912.	4.0	10
31	Mechanisms of neptunium redox reactions in nitric acid solutions. Inorganic Chemistry Frontiers, 2017, 4, 581-594.	6.0	39
32	Electrochemistry of Europium(III) Chloride in 3 LiCl â€“ NaCl, 3 LiCl â€“ 2 KCl, LiCl â€“ RbCl, and 3 LiCl â€“ 2 CsCl Eutectics at Various Temperatures. Journal of the Electrochemical Society, 2017, 164, H5345-H5352.	2.9	10
33	In Situ Imaging and Spectroscopy of Particles in Liquid. Microscopy and Microanalysis, 2017, 23, 882-883.	0.4	0
34	Importance of interlayer H bonding structure to the stability of layered minerals. Scientific Reports, 2017, 7, 13274.	3.3	42
35	Spectroelectrochemistry of EuCl₃ in Four Molten Salt Eutectics; 3â€…LiClâ^'NaCl, 3â€…LiClâ^'2â€…KCl, LiClâ^'RbCl, and 3â€…LiClâ^'2â€…CsCl; at 873â€…K. Electroanalysis, 2016, 28, 2158-2165.	2.9	16
36	Kinetics of the methylation of a platinum(II) diimine dithiolate complex. Inorganica Chimica Acta, 2016, 447, 98-104.	2.4	6

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37	Inorganic tin aluminophosphate nanocomposite for reductive separation of pertechnetate. Environmental Science: Nano, 2016, 3, 1003-1013.	4.3	24
38	Theoretical Modeling of ⁹⁹Tc NMR Chemical Shifts. Inorganic Chemistry, 2016, 55, 8341-8347.	4.0	10
39	RedOx-controlled sorption of iodine anions by hydrotalcite composites. RSC Advances, 2016, 6, 76042-76055.	3.6	23
40	Can Cr(<scp>iii</scp>) substitute for Al(<scp>iii</scp>) in the structure of boehmite?. RSC Advances, 2016, 6, 107628-107637.	3.6	15
41	Correlative Microscopic, Spectroscopic, and Computational Analysis of the Nucleation and Growth of Europium (III) Oxalate Nanoparticles. Microscopy and Microanalysis, 2016, 22, 1396-1397.	0.4	0
42	Highly Selective Colorimetric and Luminescence Response of a Square-Planar Platinum(II) Terpyridyl Complex to Aqueous TcO₄^{â€“}. Inorganic Chemistry, 2015, 54, 9914-9923.	4.0	39
43	Aqueous Binary Lanthanide(III) Nitrate Ln(NO₃)₃ Electrolytes Revisited: Extended Pitzer and Bromley Treatments. Journal of Chemical & Engineering Data, 2015, 60, 2974-2988.	1.9	20
44	In-house and synchrotron X-ray diffraction studies of 2-phenyl-1,10-phenanthroline, protonated salts, complexes with gold(III) and copper(II), and an orthometallation product with palladium(II). Acta Crystallographica Section C, Structural Chemistry, 2014, 70, 260-266.	0.5	2
45	Ruthenium Bis-diimine Complexes with a Chelating Thioether Ligand: Delineating 1,10-Phenanthrolinyl and 2,2â€²-Bipyridyl Ligand Substituent Effects. Inorganic Chemistry, 2014, 53, 294-307.	4.0	37
46	Chapter 9. Variable-pressure luminescence and Raman spectroscopy of molecular transition metal complexes: spectroscopic effects originating from small, reversible structural variations. Spectroscopic Properties of Inorganic and Organometallic Compounds, 2014, , 260-273.	0.4	4
47	Electrochemistry and Spectroelectrochemistry of Europium(III) Chloride in 3LiClâ€“2KCl from 643 to 1123 K. Analytical Chemistry, 2013, 85, 9924-9931.	6.5	33
48	Photophysics and Luminescence Spectroelectrochemistry of [Tc(dmpe)₃]^{+/2+} (dmpe = 1,2-bis(dimethylphosphino)ethane). Journal of Physical Chemistry A, 2013, 117, 12749-12758.	2.5	15
49	X-ray and synchrotron diffraction studies of 2-(pyridin-2-yl)-1,10-phenanthroline in the role of ligand for two copper polymorphs or hydrogen bonded with 2,2,6,6-tetramethyl-4-oxopiperidinium hexafluorophosphate. Acta Crystallographica Section C: Crystal Structure Communications, 2013, 69, 498-502.	0.4	6
50	Three-component spectroelectrochemical sensor module for the detection of pertechnetate (TcO4-). Reviews in Analytical Chemistry, 2013, 32, .	3.2	13
51	Platinum(II) Diimine Complexes with Halide/Pseudohalide Ligands and Dangling Trialkylamine or Ammonium Groups. Inorganic Chemistry, 2012, 51, 4572-4587.	4.0	16
52	Thinâ€Layer Spectroelectrochemistry on an Aqueous Microdrop. Electroanalysis, 2012, 24, 1065-1070.	2.9	26
53	Electronic and Molecular Structures oftrans-Dioxotechnetium(V) Polypyridyl Complexes in the Solid State. Inorganic Chemistry, 2011, 50, 5815-5823.	4.0	19
54	Semi-Infinite Linear Diffusion Spectroelectrochemistry on an Aqueous Micro-Drop. Analytical Chemistry, 2011, 83, 4214-4219.	6.5	36

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55	Luminescence-Based Spectroelectrochemical Sensor for [Tc(dmpe)₃]^{2+/+} (dmpe = 1,2-bis(dimethylphosphino)ethane) within a Charge-Selective Polymer Film. Analytical Chemistry, 2011, 83, 1766-1772.	6.5	33
56	trans-K₃[TcO₂(CN)₄]. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, i61-i62.	0.2	5
57	Intramolecular NHÂ·Â·Â·Pt Interactions of Platinum(II) Diimine Complexes with Phenyl Ligands. Inorganic Chemistry, 2010, 49, 9798-9808.	4.0	17
58	Interaction of SbCl₅^{2â^'} and Thioether Groups at the Open Coordination Sites of Platinum(II) Diimine Complexes. Inorganic Chemistry, 2010, 49, 2808-2815.	4.0	24
59	Synthesis of CdS nanoparticles within thermally evaporated aerosol OT thin films. PhysChemComm, 2003, 6, 36.	0.8	12