

# James Joseph

## List of Publications by Year in descending order

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44  
papers

1,327  
citations

304743

22  
h-index

345221

36  
g-index

45  
all docs

45  
docs citations

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times ranked

1704  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphorous doped carbon quantum dots as an efficient solid state electrochemiluminescence platform for highly sensitive turn-on detection of Cu <sup>2+</sup> ions. <i>Electrochimica Acta</i> , 2020, 331, 135391.	5.2	34
2	Impact of aminated carbon quantum dots as a novel co-reactant for Ru(bpy) <sub>3</sub> <sup>2+</sup> : resolving specific electrochemiluminescence for butein detection. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 539-546.	3.7	15
3	Phosphorus-Doped Carbon Quantum Dots as Fluorometric Probes for Iron Detection. <i>ACS Omega</i> , 2020, 5, 22278-22288.	3.5	86
4	Effect of alkali cations on Pt based catalyst towards methanol oxidation reaction in acidic medium. <i>Applied Surface Science</i> , 2019, 489, 149-153.	6.1	3
5	Amygdalin-Functionalized Carbon Quantum Dots for Probing $\beta$ -Glucosidase Activity for Cancer Diagnosis and Therapeutics. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3089-3099.	5.2	36
6	Efficient dual-mode colorimetric/fluorometric sensor for the detection of copper ions and vitamin C based on pH-sensitive amino-terminated nitrogen-doped carbon quantum dots: effect of reactive oxygen species and antioxidants. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2619-2633.	3.7	33
7	Redox-Active Polysilsesquioxane Film as a New Chloride Storage Electrode for Desalination Batteries. <i>Energy Technology</i> , 2019, 7, 1800601.	3.8	21
8	Fluorescence Turn-On, Specific Detection of Cystine in Human Blood Plasma and Urine Samples by Nitrogen-Doped Carbon Quantum Dots. <i>ACS Omega</i> , 2019, 4, 1007-1014.	3.5	47
9	Cholesterol derived carbon quantum dots as fluorescence probe for the specific detection of hemoglobin in diluted human blood samples. <i>Materials Science and Engineering C</i> , 2019, 94, 580-586.	7.3	41
10	Flexible Anion Microbatteries: Towards Construction of a Hybrid Battery-Capacitor Device. <i>ChemSusChem</i> , 2018, 11, 3081-3086.	6.8	5
11	Electrochemical Diagnosis of Chemical Switch: Impact of Structural Changes on Charge Transport Mechanism of Redox Anion Bound Polysilsesquioxane Film. <i>ChemElectroChem</i> , 2018, 5, 2808-2815.	3.4	2
12	Melamine dependent fluorescence of glutathione protected gold nanoclusters and ratiometric quantification of melamine in commercial cow milk and infant formula. <i>Applied Surface Science</i> , 2017, 420, 963-969.	6.1	37
13	Determination of vitamin B12 via pH-dependent quenching of the fluorescence of nitrogen doped carbon quantum dots. <i>Mikrochimica Acta</i> , 2017, 184, 3883-3891.	5.0	52
14	Formation of nanoporous NiS films from electrochemically modified GC surface with Nickel Hexacyanoferrate film and its performance for the hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22866-22876.	7.1	37
15	K <sub>4</sub> [Fe(CN) <sub>6</sub> ] immobilized anion sensitive protonated amine functionalized polysilsesquioxane films for ultra-low electrochemical detection of dsDNA. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7468-7474.	2.8	13
16	Electrochemically formed 3D hierarchical thin films of cobalt-manganese (Co-Mn) hexacyanoferrate hybrids for electrochemical applications. <i>Journal of Power Sources</i> , 2016, 305, 249-258.	7.8	53
17	Nanostructured porous cobalt oxide synthesis from Co <sub>3</sub> [Co(CN) <sub>6</sub> ] <sub>2</sub> and its possible applications in Lithium battery. <i>Materials Letters</i> , 2016, 165, 115-118.	2.6	5
18	Photoluminescence of oligomers of aniline-2-sulfonic acid formed in the presence of AuCl <sub>4</sub> <sup>-</sup> and sodium citrate: Application in the optical detection of hemoglobin. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 883-888.	7.8	26

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19	Fabrication of Stable Dye Sensitized Solar Cell with Gel electrolytes Using Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 507	5.2	31
20	Electro-generated reactive oxygen species at Au surface as an indicator to explore glutathione redox chemistry and quantification. <i>Electrochemistry Communications</i> , 2015, 56, 29-33.	4.7	9
21	New Znâ€“NiHCF Hybrid Electrochemically Formed on Glassy Carbon: Observation of Thin Layer Diffusion during Electro-Oxidation of Hydrazine. <i>Journal of Physical Chemistry C</i> , 2015, 119, 296-304.	3.1	19
22	Formation of nanogap Auâ€“polysilsesquioxane 1D chains for SERS application. <i>RSC Advances</i> , 2014, 4, 40003-40007.	3.6	7
23	Selective patterning of Prussian blue on N-[3-(trimethoxysilyl)propyl]ethylenediamine capped gold nanoparticle film for electrocatalysis of hydrogen peroxide reduction. <i>RSC Advances</i> , 2014, 4, 10975.	3.6	9
24	Influence of co-electrodeposited Gold particles on the electrocatalytic properties of CoHCF thin films. <i>Electrochimica Acta</i> , 2014, 139, 88-95.	5.2	9
25	New route for synthesis of electrocatalytic Ni(OH) <sub>2</sub> modified electrodesâ€”electrooxidation of borohydride as probe reaction. <i>Bulletin of Materials Science</i> , 2014, 37, 635-641.	1.7	2
26	Microwave assisted polyol method for the preparation of Pt/C, Ru/C and PtRu/C nanoparticles and its application in electrooxidation of methanol. <i>Journal of Power Sources</i> , 2012, 214, 33-39.	7.8	62
27	Enzymeless creatinine estimation using poly(3,4-ethylenedioxythiophene) -Î²-cyclodextrin. <i>Journal of Electroanalytical Chemistry</i> , 2011, 661, 303-308.	3.8	26
28	Role of pH in the synthesis of 3-aminopropyl trimethoxysilane stabilized colloidal gold/silver and their alloy sols and their application to catalysis. <i>Materials Chemistry and Physics</i> , 2011, 127, 203-207.	4.0	33
29	A novel potentiometric hydrogen peroxide sensor based on pKa changes of vinylphenylboronic acid membranes. <i>Materials Letters</i> , 2011, 65, 3563-3565.	2.6	3
30	Interaction between gold (III) chloride and potassium hexacyanoferrate (II/III)â€”Does it lead to gold analogue of Prussian blue?. <i>Electrochimica Acta</i> , 2011, 56, 5717-5721.	5.2	26
31	Selective deposition of zinc hexacyanoferrate on the metal impurity sites of a SWCNT/glassy carbon electrode. <i>Electrochemistry Communications</i> , 2011, 13, 294-297.	4.7	15
32	Nixâ€“Fe(1â€“x)Fe(CN) <sub>6</sub> hybrid thin films electrodeposited on glassy carbon: Effect of tuning of redox potentials on the electrocatalysis of hydrogen peroxide. <i>Journal of Electroanalytical Chemistry</i> , 2011, 659, 128-133.	3.8	19
33	Barrier films to control loss of 9,10-anthraquinone-2-sulphonate dopant from PEDOT films during electrochemical transitions. <i>Electrochimica Acta</i> , 2009, 54, 3618-3622.	5.2	11
34	Electrochemical instability of indium tin oxide (ITO) glass in acidic pH range during cathodic polarization. <i>Materials Chemistry and Physics</i> , 2008, 108, 403-407.	4.0	79
35	Novel Method for Deposition of Goldâ€”Prussian Blue Nanocomposite Films Induced by Electrochemically Formed Gold Nanoparticles:â€”Characterization and Application to Electrocatalysis. <i>Chemistry of Materials</i> , 2007, 19, 4722-4730.	6.7	98
36	Quasi-solid-state dye-sensitized solar cells with siloxane poly(ethylene glycol) hybrid gel electrolyte. <i>Semiconductor Science and Technology</i> , 2006, 21, 697-701.	2.0	21

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37	Hydrotrope-driven disruption of micellar encapsulants for voltammetric detection of triclosan. Journal of Electroanalytical Chemistry, 2005, 584, 210-214.	3.8	17
38	Enhancement in Performance of Dye-Sensitized Solar Cells Modified with In Situ Photopolymerized PDEA in TiO <sub>2</sub> Films. Journal of the Electrochemical Society, 2005, 152, A1378.	2.9	10
39	Modification of carbon electrodes with zinc hexacyanoferrate. Journal of Electroanalytical Chemistry, 1997, 431, 231-235.	3.8	55
40	Zeolite matrix effects on the electrochemistry of metal hexacyanoferrates. Journal of Electroanalytical Chemistry, 1992, 334, 145-153.	3.8	10
41	A simple and novel method of preparing thin surface films of electrochromic Ni(OH) <sub>2</sub> NiOOH. Solar Energy Materials and Solar Cells, 1991, 23, 1-5.	0.4	11
42	Electrodes modified with cobalt hexacyanoferrate. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 304, 263-269.	0.1	88
43	Modified electrodes with mixed metal hexacyanoferrates. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 319, 341-345.	0.1	25
44	Electrochemical characteristics of thin films of nickel hexacyanoferrate formed on carbon substrates. Electrochimica Acta, 1991, 36, 1537-1541.	5.2	86