

# Jose Savio Melo

## List of Publications by Year in descending order

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66  
papers

3,104  
citations

172457

29  
h-index

155660

55  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3922  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric double layer capacitor and its improved specific capacitance using redox additive electrolyte. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1086-1095.	10.3	349
2	Redox additive/active electrolytes: a novel approach to enhance the performance of supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12386.	10.3	309
3	High Performance Solid-State Electric Double Layer Capacitor from Redox Mediated Gel Polymer Electrolyte and Renewable Tamarind Fruit Shell Derived Porous Carbon. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 10541-10550.	8.0	162
4	Redox additive aqueous polymer gel electrolyte for an electric double layer capacitor. <i>RSC Advances</i> , 2012, 2, 8937.	3.6	152
5	Improved performance of electric double layer capacitor using redox additive (VO <sub>2</sub> +/VO <sub>2</sub> <sup>+</sup> ) aqueous electrolyte. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7913.	10.3	137
6	Biosorption characteristics of uranium(VI) from aqueous medium onto <i>Catenella repens</i> , a red alga. <i>Journal of Hazardous Materials</i> , 2008, 158, 628-635.	12.4	130
7	Evaporation Driven Self-Assembly of a Colloidal Dispersion during Spray Drying: Volume Fraction Dependent Morphological Transition. <i>Langmuir</i> , 2009, 25, 6690-6695.	3.5	123
8	Removal of chromium by mucilaginous seeds of <i>Ocimum basilicum</i> . <i>Bioresource Technology</i> , 2004, 92, 151-155.	9.6	101
9	Simultaneous determination of ascorbic acid, dopamine and uric acid using polystyrene sulfonate wrapped multiwalled carbon nanotubes bound to graphite electrode through layer-by-layer technique. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 643-650.	7.8	91
10	Biosorption of uranium by melanin: Kinetic, equilibrium and thermodynamic studies. <i>Bioresource Technology</i> , 2013, 149, 155-162.	9.6	89
11	Electrochemical biosensor for the selective determination of hydrogen peroxide based on the co-deposition of palladium, horseradish peroxidase on functionalized-graphene modified graphite electrode as composite. <i>Journal of Electroanalytical Chemistry</i> , 2013, 689, 233-242.	3.8	74
12	An optical microplate biosensor for the detection of methyl parathion pesticide using a biohybrid of <i>Sphingomonas</i> sp. cells-silica nanoparticles. <i>Biosensors and Bioelectronics</i> , 2017, 87, 332-338.	10.1	73
13	Electrochemical detection of acetaminophen on the functionalized MWCNTs modified electrode using layer-by-layer technique. <i>Electrochimica Acta</i> , 2011, 56, 6619-6627.	5.2	72
14	Phenol removal using <i>Brassica juncea</i> hairy roots: Role of inherent peroxidase and H <sub>2</sub> O <sub>2</sub> . <i>Journal of Biotechnology</i> , 2006, 123, 43-49.	3.8	71
15	Immobilization of yeast cells by adhesion to glass surface using polyethylenimine. <i>Biotechnology Letters</i> , 1986, 8, 643-648.	2.2	69
16	Uranium (VI) recovery from aqueous medium using novel floating macroporous alginate-agarose-magnetite cryobeads. <i>Journal of Hazardous Materials</i> , 2013, 246-247, 87-95.	12.4	66
17	Preparation of a sponge-like biocomposite agarose- $\alpha$ -chitosan scaffold with primary hepatocytes for establishing an in vitro 3D liver tissue model. <i>RSC Advances</i> , 2015, 5, 30701-30710.	3.6	65
18	An amperometric bienzymatic cholesterol biosensor based on functionalized graphene modified electrode and its electrocatalytic activity towards total cholesterol determination. <i>Talanta</i> , 2012, 99, 302-309.	5.5	63

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19	Potential of vetiver ( <i>Vetiveria zizanioides</i> L. Nash) for phytoremediation of phenol. <i>Ecotoxicology and Environmental Safety</i> , 2008, 71, 671-676.	6.0	56
20	Arrest of morphological transformation during evaporation-induced self-assembly of mixed colloids in micrometric droplets by charge tuning. <i>Soft Matter</i> , 2011, 7, 5423.	2.7	45
21	Grease immobilized on polyethyleneimine cotton cloth. <i>Applied Biochemistry and Biotechnology</i> , 1988, 19, 251-258.	2.9	44
22	Direct electrochemistry of cholesterol oxidase on MWCNTs. <i>Journal of Electroanalytical Chemistry</i> , 2011, 651, 24-29.	3.8	44
23	Biosorption of uranium by human black hair. <i>Journal of Environmental Radioactivity</i> , 2015, 142, 29-35.	1.7	38
24	Immobilization of lipase on cotton cloth using the layer-by-layer self-assembly technique. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 300-302.	7.5	37
25	Synthesis of one-dimensional gold nanostructures and the electrochemical application of the nanohybrid containing functionalized graphene oxide for cholesterol biosensing. <i>Bioelectrochemistry</i> , 2016, 110, 79-90.	4.6	36
26	A biosensor based on a graphene nanoribbon/silver nanoparticle/polyphenol oxidase composite matrix on a graphite electrode: application in the analysis of catechol in green tea samples. <i>New Journal of Chemistry</i> , 2018, 42, 16620-16629.	2.8	34
27	Development of a simple bioelectrode for the electrochemical detection of hydrogen peroxide using <i>Pichia pastoris</i> catalase immobilized on gold nanoparticle nanotubes and polythiophene hybrid. <i>Analyst</i> , The, 2014, 139, 5800-5812.	3.5	31
28	Direct electrochemical non-enzymatic assay of glucose using functionalized graphene. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 2675-2681.	2.5	30
29	Progressive development in biosensors for detection of dichlorvos pesticide: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105067.	6.7	30
30	Biodegradation of tributyl phosphate using <i>Klebsiella pneumoniae</i> sp. S3. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 919-929.	3.6	28
31	Amperometric hydrogen peroxide and cholesterol biosensors designed by using hierarchical curtailed silver flowers functionalized graphene and enzymes deposits. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 685-701.	2.5	28
32	A method for the preparation of coimmobilizates by adhesion using polyethylenimine. <i>Enzyme and Microbial Technology</i> , 1991, 13, 508-511.	3.2	24
33	Spray drying as an efficient route for synthesis of silica nanoparticles-sodium alginate biohybrid drug carrier of doxorubicin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 197, 111445.	5.0	24
34	Microplate based optical biosensor for l-Dopa using tyrosinase from <i>Amorphophallus campanulatus</i> . <i>Analytica Chimica Acta</i> , 2014, 849, 50-56.	5.4	23
35	One-pot green synthesis of eumelanin: process optimization and its characterization. <i>RSC Advances</i> , 2015, 5, 47671-47680.	3.6	21
36	Plasma Surface Modification of Biomaterials for Biomedical Applications. <i>Advanced Structured Materials</i> , 2017, , 95-166.	0.5	21

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37	Evaporation induced self assembled microstructures of silica nanoparticles and <i>Streptococcus lactis</i> cells as sorbent for uranium (VI). <i>Journal of Colloid and Interface Science</i> , 2014, 414, 33-40.	9.4	19
38	Detection of Catechol Using a Biosensor Based on Biosynthesized Silver Nanoparticles and Polyphenol Oxidase Enzymes. <i>Portugaliae Electrochimica Acta</i> , 2019, 37, 257-270.	1.1	19
39	Immobilization of invertase through its carbohydrate moiety on <i>Ocimum basilicum</i> seed. <i>Applied Biochemistry and Biotechnology</i> , 1992, 32, 159-170.	2.9	18
40	Spray drying as a novel technique for obtaining microbial imprinted microspheres and its application in filtration. <i>Soft Matter</i> , 2013, 9, 805-810.	2.7	18
41	Cryostructurization of polymeric systems for developing macroporous cryogel as a foundational framework in bioengineering applications. <i>Journal of Chemical Sciences</i> , 2019, 131, 1.	1.5	18
42	A simple approach for the simultaneous isolation and immobilization of invertase using crude extracts of yeast and Jack bean meal. <i>Journal of Proteomics</i> , 2000, 42, 133-135.	2.4	17
43	Synthesis of a low-density biopolymeric chitosan-agarose cryomatrix and its surface functionalization with bio-transformed melanin for the enhanced recovery of uranium from aqueous subsurfaces. <i>RSC Advances</i> , 2016, 6, 37067-37078.	3.6	17
44	Carbon Nanotube Functionalization and Radiation Induced Enhancements in the Sensitivity of Standalone Chemiresistors for Sensing Volatile Organic Compounds. <i>ACS Applied Nano Materials</i> , 2018, 1, 5470-5482.	5.0	17
45	On-column enzymatic synthesis of melanin nanoparticles using cryogenic poly(AAM-co-AGE) monolith and its free radical scavenging and electro-catalytic properties. <i>RSC Advances</i> , 2015, 5, 87206-87215.	3.6	15
46	Parametric optimization for adsorption of mercury (II) using self assembled bio-hybrid. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103725.	6.7	15
47	Preparation and application of silica nanoparticles- <i>Ocimum basilicum</i> seeds bio-hybrid for the efficient immobilization of invertase enzyme. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110796.	5.0	14
48	Metal-ion co-ordination assembly based multilayer of one dimensional gold nanostructures and catalase as electrochemical sensor for the analysis of hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 726-740.	7.8	12
49	Porous nano-structured micro-granules from silica-milk bi-colloidal suspension: Synthesis and characterization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 154, 421-428.	5.0	12
50	An approach to enhance nutritive quality of groundnut ( <i>Arachis hypogaea</i> L.) seed oil through endomycorrhizal fertigation. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018, 14, 18-22.	3.1	12
51	<i>Ocimum basilicum</i> seeds as a pellicular support for immobilizing enzymes. <i>Biotechnology Letters</i> , 1986, 8, 885-888.	2.2	11
52	New Proton Nuclear Magnetic Resonance-Based Derivation for Quantification of Alkyl Esters Generated Using Biocatalysis. <i>Energy &amp; Fuels</i> , 2013, 27, 2660-2664.	5.1	11
53	<i>E. coli</i> imprinted nano-structured silica micro-granules by spray drying: Optimization of calcination temperature. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 127, 164-171.	5.0	11
54	Self-assembled biogenic melanin modulated surface chemistry of biopolymers-colloidal silica composite porous matrix for the recovery of uranium. <i>Journal of Applied Polymer Science</i> , 2019, 136, 46937.	2.6	10

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55	Enhancement in $\beta$ -galactosidase activity of <i>Streptococcus lactis</i> cells by entrapping in microcapsules comprising of correlated silica nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 195, 111245.	5.0	9
56	Role of Indigenous Mycorrhizal Species in Enhancing Physiological and Biochemical Status, Nutrient Acquisition and Yield Pattern of Groundnut ( <i>Arachis Hypogaea</i> L.). <i>Journal of Crop Science and Biotechnology</i> , 2018, 21, 23-33.	1.5	7
57	A novel bioassay based gold nanoribbon biosensor to aid the preclinical evaluation of anticancer properties. <i>RSC Advances</i> , 2016, 6, 60693-60703.	3.6	6
58	Rhoeo discolor leaf extract as a novel immobilizing matrix for the fabrication of an electrochemical glucose and hydrogen peroxide biosensor. <i>Analytical Methods</i> , 2014, 6, 863-877.	2.7	5
59	Mechanical hysteresis, interface and filler-filler structural breakdowns in ethylene vinyl acetate organoclay composites internally lubricated via radiolytically degraded PTFE microparticles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 509-519.	2.1	4
60	Elastomeric Matrix Composites with Enhanced Hybrid Fuel Resistance via Percolation-Assisted Grafting. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2633-2643.	4.4	4
61	Comparative assessment using <i>Glomus mosseae</i> and NPK fertigation to evaluate its role in enhancing growth and yield of groundnut ( <i>Arachis hypogaea</i> L.). <i>Journal of Plant Nutrition</i> , 2020, 43, 1697-1711.	1.9	4
62	Gamma radiation-induced in vitro hormetic apogamy in the fern <i>Pityrogramma calomelanos</i> (L.) Link. <i>BioSystems</i> , 2018, 173, 221-224.	2.0	3
63	Morphological deformation during evaporation induced assembly of mixed colloidal suspension. , 2010, , .		1
64	Immobilization: Then and Now. <i>Gels Horizons: From Science To Smart Materials</i> , 2021, , 1-84.	0.3	1
65	Immobilization of Biomolecules on Plasma-Functionalized Surfaces for Biomedical Applications. <i>Gels Horizons: From Science To Smart Materials</i> , 2021, , 305-333.	0.3	1
66	Inter-particle interaction dependent evaporation-induced assembly in contact-free micro-colloidal droplets. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0