

Jay D Wadhawan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

824
citations

18
h-index

28
g-index

43
ext. papers

878
ext. citations

6.1
avg, IF

3.73
L-index

#	Paper	IF	Citations
42	Unravelling the Occurrence of Mediator-Blood Protein Interactions via the Redox Catalysis of the Physiological Gasotransmitter Hydrogen Sulfide. <i>ChemistrySelect</i> , 2021 , 6, 10059-10062	1.8	1
41	Intra- and Inter-molecular Sulf-hydryl Hydrogen Bonding: Facilitating Proton Transfer Events for Determination of pH in Sea Water. <i>Electroanalysis</i> , 2021 , 33, 559-562	3	0
40	Electrochemically Induced Mesomorphism Switching in a Chlorpromazine Hydrochloride Lyotropic Liquid Crystal. <i>ACS Omega</i> , 2021 , 6, 4630-4640	3.9	0
39	Electrochemical quantification of d-glucose during the production of bioethanol from thermo-mechanically pre-treated wheat straw. <i>Electrochemistry Communications</i> , 2021 , 124, 106942	5.1	3
38	Asymmetric and Anharmonic Electrode Kinetics: Evaluation of a Model for Electron Transfer with Concerted Rupture of Weak, Inner Shell Interactions. <i>ChemistrySelect</i> , 2021 , 6, 13331-13335	1.8	0
37	Regular Solution Theory for Polymer Permeation Transients: A Toolkit for Understanding Experimental Waveshapes. <i>Langmuir</i> , 2020 , 36, 5003-5020	4	2
36	Evaporative mass loss measurement as a quality control tool for quality assurance in the manufacture of inks suitable for high speed (80 m min ⁻¹) printing. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 872, 114328	4.1	1
35	Multiphase Methods in Organic Electrosynthesis. <i>Accounts of Chemical Research</i> , 2019 , 52, 3325-3338	24.3	19
34	Electrochemical measurement of antibody-antigen recognition biophysics: Thermodynamics and kinetics of human chorionic gonadotropin (hCG) binding to redox-tagged antibodies. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 819, 533-541	4.1	7
33	Synthesis and antimicrobial effects of highly dispersed, cellulose-stabilized silver/cellulose nanocomposites.. <i>RSC Advances</i> , 2018 , 8, 3646-3656	3.7	16
32	Imaging immunoassay in negative: surface-catalysed chemiluminescence for the detection of pregnancy hormones in artificial saliva. <i>New Journal of Chemistry</i> , 2018 , 42, 18641-18648	3.6	2
31	Synthesis and antibacterial effects of cobalt@cellulose magnetic nanocomposites. <i>RSC Advances</i> , 2017 , 7, 20020-20026	3.7	35
30	A mechanistic study of the EC ⁺ mechanism in the split wave in cyclic voltammetry and square wave voltammetry. <i>RSC Advances</i> , 2016 , 6, 70237-70242	3.7	22
29	Study of Pyridine-Mediated Electrochemical Reduction of CO ₂ to Methanol at High CO ₂ Pressure. <i>ChemSusChem</i> , 2016 , 9, 1660-9	8.3	27
28	Empowering the smart grid: can redox batteries be matched to renewable energy systems for energy storage?. <i>Energy and Environmental Science</i> , 2013 , 6, 1026	35.4	30
27	A model for efficient, semiconductor-free solar cells via supersensitized electron transfer cascades in photogalvanic devices. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3218-26	3.6	3
26	Concentration-dependent diffusion coefficients of tert-butylferrocene within dodecyltrimethylammonium chloride/brine liquid crystals. <i>Electrochemistry Communications</i> , 2012 , 17, 41-44	5.1	4

25	Voltammetric Immunoassay for the Detection of Protein Biomarkers. <i>Electroanalysis</i> , 2012 , 24, 264-272	3	17
24	Photogalvanic cells based on lyotropic nanosystems: towards the use of liquid nanotechnology for personalised energy sources. <i>Energy and Environmental Science</i> , 2012 , 5, 6541	35.4	13
23	Synthesis and characterisation of organic-modified inorganic nanorods. <i>Journal of Experimental Nanoscience</i> , 2012 , 7, 673-687	1.9	1
22	Biphasic Voltammetry of N,N,N',N'-Tetraphenyl-para-phenylenediamine Microdroplets, Microparticles and Microparticle Suspensions. <i>Electroanalysis</i> , 2011 , 23, 997-1006	3	4
21	Electrochemical estimation of diffusion anisotropy of N,N,N',N'-tetramethyl-para-phenylenediamine within the normal hexagonal lyotropic mesophase of Triton X 100/light water: when can the effects of cross-pseudophase electron transfer be neglected for partitioned reagents? <i>Journal of Physical Chemistry B</i> , 2011 , 115, 6509-23	3.4	8
20	Electron hopping rate measurements in ITO junctions: Charge diffusion in a layer-by-layer deposited ruthenium(II)-bis(benzimidazolyl)pyridine-phosphonate/ITO film. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 657, 196-201	4.1	13
19	Amperometric measurement of gaseous hydrogen sulfide via a Clark-type approach. <i>Analytical Methods</i> , 2010 , 2, 1346	3.2	6
18	Immobilized anthraquinone for redox mediation of horseradish peroxidase for hydrogen peroxide sensing. <i>Electrochemistry Communications</i> , 2009 , 11, 1976-1981	5.1	21
17	Electrochemical Determination of Diffusion Anisotropy in Molecularly-Structured Materials. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8901-8910	3.8	8
16	Electrogenerated chemiluminescence at droplet-modified electrodes: towards biphasic pKa measurement via proton-coupled electron transfer at liquid liquid interfaces. <i>New Journal of Chemistry</i> , 2009 , 33, 749	3.6	8
15	Ultrafast voltammetry for probing interfacial electron transfer in molecular wires. <i>ChemPhysChem</i> , 2007 , 8, 1321-9	3.2	76
14	Biphasic redox chemistry of Tocopherol: Evidence for electrochemically induced hydrolysis and dimerization on the surface of and within femtolitre droplets immobilized onto graphite electrodes. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 836-842	3.6	19
13	Electrochemical probing of photochemical reactions inside femtolitre droplets confined to electrodes. <i>ChemPhysChem</i> , 2003 , 4, 1211-5	3.2	19
12	Electrocatalytic reactions mediated by N,N,N',N'-tetraalkyl-1,4-phenylenediamine redox liquid microdroplet-modified electrodes: chemical and photochemical reactions In, and At the surface of, femtoliter droplets. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11418-29	16.4	36
11	Reactive chemistry via the redox switching of microdroplets of 4-nitrophenyl nonyl ether in the presence of aqueous electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 1867-1875	3.6	28
10	Electrochemistry of immobilised redox droplets: Concepts and applications. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 4053	3.6	164
9	Electroanalytical Methods: Guide to Experiments and Applications. F. Scholz, Editor. Springer-Verlag: Berlin, 2002. 331 pp. 100 figures, 31 tables. £49.00 (£9.95 + VAT) ISBN: 3-540-42229-3 (hardcover). <i>The Chemical Educator</i> , 2002 , 7, 321-322		
8	Surfactant-free emulsion electrosynthesis via power ultrasound: electrocatalytic formation of carbon-carbon bonds. <i>Green Chemistry</i> , 2002 , 4, 570-577	10	14

7	Biphasic sonoelectrosynthesis. A review. <i>Pure and Applied Chemistry</i> , 2001 , 73, 1947-1955	2.1	41
6	Photoelectrochemically driven processes at the N,N,N',N'-tetrahexylphenylenediamine microdroplet electrode aqueous electrolyte triple interface. <i>Journal of Solid State Electrochemistry</i> , 2001 , 5, 301-305	2.6	26
5	Voltammetry of electroactive liquid redox systems: anion insertion and chemical reactions in microdroplets of para-tetrakis(6-methoxyhexyl) phenylenediamine, para- and meta-tetrahexylphenylenediamine. <i>Journal of Solid State Electrochemistry</i> , 2001 , 5, 17-22	2.6	28
4	Sono-emulsion electrosynthesis: electrode-insensitive Kolbe reactions. <i>Chemical Communications</i> , 2001 , 87-88	5.8	24
3	Laminated microelectrodes: a simple approach to the construction of inexpensive microelectrodes with a variety of geometries. <i>Analytical Chemistry</i> , 2001 , 73, 6088-92	7.8	28
2	Voltammetry of Electroactive Oil Droplets. Part II: Comparison of Experimental and Simulation Data for Coupled Ion and Electron Insertion Processes and Evidence for Microscale Convection. <i>Electroanalysis</i> , 2000 , 12, 1017-1025	3	50
1	In situ recalibration of ion selective electrodes. <i>Sensors & Diagnostics</i> ,		