Koichi Jeremiah Aoki

List of Publications by Year
in descending order

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50	631	566801	676716
papers	citations	15 h-index	22 g-index

50	50	50	554
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solvent Variables Controlling Electric Double Layer Capacitance at the Metalâ€“Solution Interface. Journal of Physical Chemistry C, 2014, 118, 10153-10158.	1.5	51
2	Peak potential shift of fast cyclic voltammograms owing to capacitance of redox reactions. Journal of Electroanalytical Chemistry, 2020, 856, 113609.	1.9	43
3	Decrease in the double layer capacitance by faradaic current. RSC Advances, 2017, 7, 22501-22509.	1.7	36
4	Spontaneous emulsification at oilâ€“water interface by tetraalkylammonium chloride. Electrochemistry Communications, 2009, 11, 239-241.	2.3	32
5	Examination of the Gouyâ€“Chapman theory for double layer capacitance in deionized latex suspensions. RSC Advances, 2014, 4, 63171-63181.	1.7	25
6	Cationic Rectifier Based on a Graphene Oxide-Covered Microhole: Theory and Experiment. Langmuir, 2019, 35, 2055-2065.	1.6	25
7	Voltammetric Determination of Both Concentration and Diffusion Coefficient by Combinational Use of Regular and Microelectrodes. Electroanalysis, 2011, 23, 947-952.	1.5	22
8	Electrochemically instantaneous reduction of conducting polyaniline-coated latex particles dispersed in acidic solution. Electrochimica Acta, 2008, 53, 7100-7106.	2.6	20
9	Frequency-dependence of electric double layer capacitance without Faradaic reactions. Journal of Electroanalytical Chemistry, 2016, 779, 117-125.	1.9	20
10	Molecular interaction model for frequency-dependence of double layer capacitors. Electrochimica Acta, 2016, 188, 545-550.	2.6	20
11	Electrolysis of pure water in a thin layer cell. Journal of Electroanalytical Chemistry, 2013, 695, 24-29.	1.9	19
12	Enhancement of Redox Cycling Currents at Interdigitated Electrodes with Elevated Fingers. Journal of the Electrochemical Society, 2014, 161, H178-H182.	1.3	18
13	Diffusion-controlled currents in viscous solutions of polyethylene glycols. Journal of Electroanalytical Chemistry, 2009, 629, 73-77.	1.9	16
14	Heterogeneous reaction rate constants by steady-state microelectrode techniques and fast scan voltammetry. Journal of Electroanalytical Chemistry, 2013, 706, 40-47.	1.9	16
15	Effects of the dipolar double layer on elemental electrode processes at micro- and macro-interfaces. Faraday Discussions, 2018, 210, 219-234.	1.6	16
16	Fabrication of glass-coated electrodes with nano- and micrometer size by means of dissolution with HF. Electrochimica Acta, 2010, 55, 7328-7333.	2.6	15
17	Diffusion coefficients in viscous sodium alginate solutions. Electrochimica Acta, 2012, 83, 348-353.	2.6	15
18	Power law for frequency-dependence of double layer capacitance of graphene flakes. Journal of Electroanalytical Chemistry, 2015, 741, 114-119.	1.9	15

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19	Microscale Ionic Diodes: An Overview. Electroanalysis, 2021, 33, 1398-1418.	1.5	15
20	Slow scan voltammetry for diffusion-controlled currents in sodium alginate solutions. Journal of Electroanalytical Chemistry, 2013, 700, 60-64.	1.9	13
21	Formation of graphite oxide nano-disks by electrochemical oxidation of HOPG. Electrochimica Acta, 2014, 130, 381-386.	2.6	13
22	Capacitive Currents Flowing in the Direction Opposite to Redox Currents. Journal of Physical Chemistry C, 2018, 122, 16727-16732.	1.5	13
23	Size-distribution of droplets in emulsions by statistical mechanics calculation. Journal of Colloid and Interface Science, 2011, 360, 256-261.	5.0	12
24	Blocking of two-electron reduction of non-charged species in the absence of supporting electrolyte at nanoelectrodes. Journal of Electroanalytical Chemistry, 2013, 708, 101-107.	1.9	10
25	Voltammetry at a single nano-electrode by varying electrode diameters: Review. Journal of Electroanalytical Chemistry, 2016, 779, 7-17.	1.9	10
26	Self-dispersion of mercury metal into aqueous solutions. Journal of Electroanalytical Chemistry, 2012, 682, 66-71.	1.9	9
27	Voltammetry in low concentration of electrolyte supported by ionic latex suspensions. Journal of Electroanalytical Chemistry, 2013, 697, 5-9.	1.9	9
28	Insight of electrolyte-free voltammetry at microelectrodes. Current Opinion in Electrochemistry, 2018, 10, 67-71.	2.5	9
29	Rectification effects of Nafion-backed micropore-voltammograms by difference in migrational modes. Electrochimica Acta, 2020, 358, 136839.	2.6	9
30	Voltammetric potentials of polyaniline varying with electric percolation. Electrochimica Acta, 2010, 55, 6959-6963.	2.6	8
31	Stripped Charge of Ag Less than Deposited one Owing to Negative Capacitance Caused by Redox Reactions. Electroanalysis, 2019, 31, 2303-2310.	1.5	7
32	Potential Step for Double-Layer Capacitances Obeying the Power Law. ACS Omega, 2020, 5, 7497-7502.	1.6	7
33	Electrically conducting suspensions formed by polyaniline. Electrochimica Acta, 2008, 53, 3798-3802.	2.6	6
34	Simulation for memory effect of Fickâ€™s first law. Journal of Chemical Sciences, 2009, 121, 601-605.	0.7	6
35	Double Layer Impedance in Mixtures of Acetonitrile and Water. Electroanalysis, 2018, 30, 1634-1641.	1.5	6
36	Participation in Negative Capacitance of Diffusion-Controlled Voltammograms of Hemin. ACS Omega, 2020, 5, 29447-29452.	1.6	6

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37	Tips of Voltammetry. , 2019, , .		5
38	Electric Field-Dependence of Double Layer Capacitances by Current-Controlled Charge-Discharge Steps. Electrochem, 2020, 1, 217-225.	1.7	5
39	Catalytic generation of chlorine with slight overpotential by micellar ferrocene. Electrochemistry Communications, 2007, 9, 2304-2307.	2.3	4
40	Conditions of predominant occurrence of catalytic reduction of O2 by ferrous hemin over formation of ferrous hemin-O2 adduct. Journal of Electroanalytical Chemistry, 2015, 743, 134-138.	1.9	4
41	Electric Migration of Hydrogen Ion in Pore-Voltammetry Suppressed by Nafion Film. Electrochem, 2020, 1, 400-409.	1.7	4
42	Diffusion-controlled current at elliptically deformed microelectrodes. Journal of Solid State Electrochemistry, 2011, 15, 2305-2309.	1.2	3
43	Irreversibility of catalytic reduction of dioxygen by dissolved hemin. Journal of Electroanalytical Chemistry, 2014, 713, 131-135.	1.9	3
44	Double-Layer Capacitances Caused by Ionâ€“Solvent Interaction in the Form of Langmuir-Typed Concentration Dependence. Electrochem, 2021, 2, 631-642.	1.7	3
45	Frequency Dispersion of Double Layer Capacitance of Polyaniline-Coated Electrodes Under the Conducting State. International Journal of Chemistry, 2018, 10, 25.	0.3	2
46	Parallel Combination of Inner Capacitance and Ionic Capacitance, Apparently Inconsistent with Sternâ€™s Model. Electrochem, 2021, 2, 71-82.	1.7	2
47	A Loss of Charge at Reduction of Hydrogen Ion by Fast Scan Voltammetry. Journal of the Electrochemical Society, 2022, 169, 036510.	1.3	2
48	Functionality of reduced graphene oxide flakes at the growth of conducting zone in polyaniline-graphene composite films. Electrochimica Acta, 2017, 228, 125-130.	2.6	1
49	Scientific hints of developing supercapacitors. Journal of Solid State Electrochemistry, 2020, 24, 2055-2058.	1.2	1
50	Microholeâ€voltammograms Controlled by Solution Reservoir at Cationic and Anionic Ion Exchange Membranes. Electroanalysis, 2021, 33, 2041-2047.	1.5	0