Masato Tominaga

List of Publications by Year
in descending order

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70 papers	1,802 citations	331670 21 h-index	276875 41 g-index
71 all docs	71 docs citations	71 times ranked	1767 citing authors

#	Article	IF	Citations
1	Highly sensitive detection of phosphate using well-ordered crystalline cobalt oxide nanoparticles supported by multi-walled carbon nanotubes. Materials Advances, 2022, 3, 2018-2025.	5.4	8
2	Fluorescence spectrophotometry for COVID-19 determination in clinical swab samples. Arabian Journal of Chemistry, 2022, 15, 104020.	4.9	3
3	Temperature depending bioelectrocatalysis current of multicopper oxidase from a hyperthermophilic archaeon Pyrobaculum aerophilum. Electrochemistry Communications, 2021, 125, 106982.	4.7	0
4	Oxygen-catalyzed Reduction Reaction at Nitrogen-doped Carbon Synthesized by Post-synthesis Method Using Single-walled Carbon Nanotubes as a Substrate Electrode. Bunseki Kagaku, 2021, 70, 557-561.	0.2	0
5	Cellulose nanofiber-based electrode as a component of an enzyme-catalyzed biofuel cell. RSC Advances, 2020, 10, 22120-22125.	3.6	18
6	The effect of connection type in series and parallel on electric power generation of mud microbial fuel cell. AIP Conference Proceedings, 2020, , .	0.4	3
7	Tunable electrochemical synthesis of 3D nucleated microparticles like Cu-BTC MOF-carbon nanotubes composite: Enzyme free ultrasensitive determination of glucose in a complex biological fluid. Electrochimica Acta, 2020, 354, 136673.	5.2	69
8	Response of SWCNTs/KPG5-modified carbon electrode on dopamine, uric acid and ascorbic acid. IOP Conference Series: Materials Science and Engineering, 2019, 494, 012049.	0.6	1
9	Hydrothermal preparation of a platinum-loaded sulphated nanozirconia catalyst for the effective conversion of waste low density polyethylene into gasoline-range hydrocarbons. RSC Advances, 2019, 9, 41392-41401.	3.6	24
10	Cholate Adsorption Behavior at Carbon Electrode Interface and Its Promotional Effect in Laccase Direct Bioelectrocatalysis. Colloids and Interfaces, 2018, 2, 33.	2.1	0
11	Electrochemical Sensor Based on Single-Walled Carbon Nanotubes-Modified Gold Electrode for Uric Acid Detection. Journal of the Electrochemical Society, 2018, 165, B515-B522.	2.9	18
12	Single-Walled Carbon Nanotubes-Modified Gold Electrode for Dopamine Detection. ECS Journal of Solid State Science and Technology, 2017, 6, M3109-M3112.	1.8	15
13	Fast growth of Au-Pt bimetallic nanoparticles on SWCNTs: Composition dependent electrocatalytic activity towards glucose and hydrogen peroxide. Journal of Electroanalytical Chemistry, 2017, 798, 24-33.	3.8	22
14	The use of mud as an alternative source for bioelectricity using microbial fuel cells. AIP Conference Proceedings, 2017, , .	0.4	3
15	Biosurfactant functionalized single-walled carbon nanotubes to promote laccase bioelectrocatalysis. New Journal of Chemistry, 2017, 41, 231-236.	2.8	7
16	In situ Raman spectroelectrochemical study of potential-induced molecular encapsulation of Î²-carotene inside single-walled carbon nanotubes. Journal of Electroanalytical Chemistry, 2017, 800, 156-161.	3.8	6
17	Development of Bio-Functional Molecule-Modified Nano-Carbon Electrode for Fast Catalytic Oxygen Reduction with Highly Electrode Potential. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2017, 25, 79-83.	0.0	0
18	Bioelectrocatalytic Oxygen Reaction and Chloride Inhibition Resistance of Laccase Immobilized on Single-walled Carbon Nanotube and Carbon Paper Electrodes. Electrochemistry, 2016, 84, 315-318.	1.4	11

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19	Iron metal induced deoxygenation of graphite oxide nanosheets-insights on the capacitive properties of binder-free electrodes. RSC Advances, 2015, 5, 23367-23373.	3.6	7
20	Improvement of laccase bioelectrocatalyst at a phosphate templating graphene nanoplatelet plate electrode. Electrochemistry Communications, 2015, 59, 32-35.	4.7	2
21	Laccase Bioelectrocatalyst at a Steroid-Type Biosurfactant-Modified Carbon Nanotube Interface. Analytical Chemistry, 2015, 87, 5417-5421.	6.5	38
22	Effect of oxygen adsorption on the electrochemical oxidative corrosion of single-walled carbon nanotubes. RSC Advances, 2014, 4, 53833-53836.	3.6	4
23	Oxidative corrosion potential vs. pH diagram for single-walled carbon nanotubes. RSC Advances, 2014, 4, 27224.	3.6	21
24	Effect of N-Doping of Single-Walled Carbon Nanotubes on Bioelectrocatalysis of Laccase. Analytical Chemistry, 2014, 86, 5053-5060.	6.5	17
25	Determination of the Diameterâ€Dependent Onset Potential for the Oxygenation of SWCNTs. Chemistry - an Asian Journal, 2013, 8, 2680-2684.	3.3	8
26	Correlation between carbon oxygenated species of SWCNTs and the electrochemical oxidation reaction of NADH. Electrochemistry Communications, 2013, 31, 76-79.	4.7	13
27	Jungle-Gym Structured Films of Single-Walled Carbon Nanotubes on a Gold Surface: Oxidative Treatment and Electrochemical Properties. Journal of Physical Chemistry C, 2012, 116, 9498-9506.	3.1	25
28	Sensitivity to electrical stimulation of human immunodeficiency virus type 1 and MAGIC-5 cells. AMB Express, 2011, 1, 23.	3.0	8
29	Redox Reaction of Ferritin Immobilized onto SAMs- and Polypeptides-Modified Electrodes. Review of Polarography, 2010, 56, 67-80.	0.1	0
30	Effect of Surface-oxidized Structure of Single-walled Carbon Nanotubes on Heterogeneous Direct Electron-transfer Reaction of Cytochrome c. Chemistry Letters, 2010, 39, 976-977.	1.3	6
31	Electrochemical Investigation of Dynamic Solution Structures of Bicontinuous Microemulsion at Solid Interfaces. Chemistry Letters, 2010, 39, 1152-1154.	1.3	11
32	Catalytic Current Based on Direct Electron Transfer Reactions of Enzymes Immobilized onto Carbon Nanotubes. ECS Transactions, 2009, 16, 1-8.	0.5	2
33	d-Fructose detection based on the direct heterogeneous electron transfer reaction of fructose dehydrogenase adsorbed onto multi-walled carbon nanotubes synthesized on platinum electrode. Biosensors and Bioelectronics, 2009, 24, 1184-1188.	10.1	76
34	Effect of functional groups at carbon nano-structured materials on electron transfer reaction of enzymes. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2009, 17, 21-25.	0.0	0
35	Electrocatalytic glucose oxidation at bimetallic goldâ€“copper nanoparticle-modified carbon electrodes in alkaline solution. Journal of Electroanalytical Chemistry, 2008, 624, 1-8.	3.8	66
36	Compositionâ€“activity relationships of carbon electrode-supported bimetallic goldâ€“silver nanoparticles in electrocatalytic oxidation of glucose. Journal of Electroanalytical Chemistry, 2008, 615, 51-61.	3.8	60

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37	Redox reaction characteristics of ferritin-immobilized onto poly(l-lysine)-modified indium oxide electrodes. Journal of Electroanalytical Chemistry, 2008, 617, 78-84.	3.8	9
38	Bioelectrocatalytic current based on direct heterogeneous electron transfer reaction of glucose oxidase adsorbed onto multi-walled carbon nanotubes synthesized on platinum electrode surfaces. Electrochemistry Communications, 2008, 10, 888-890.	4.7	25
39	Gold single-crystal electrode surface modified with self-assembled monolayers for electron tunneling with bilirubin oxidase. Physical Chemistry Chemical Physics, 2008, 10, 6928.	2.8	60
40	Frequency change-induced alternative potential waveform dependence of membrane damage to cells cultured on an electrode surface. Journal of Biotechnology, 2007, 129, 498-501.	3.8	3
41	Controlled-potential electrosynthesis of glucosaminic acid from glucosamine at a gold electrode. Electrochemistry Communications, 2007, 9, 911-914.	4.7	14
42	Surface poisoning during electrocatalytic monosaccharide oxidation reactions at gold electrodes in alkaline medium. Electrochemistry Communications, 2007, 9, 1892-1898.	4.7	60
43	Nano-ordered topographical effects on dissociation of carboxylic acid terminated self-assembled monolayers adsorbed onto a gold surface. Journal of Electroanalytical Chemistry, 2007, 603, 203-211.	3.8	15
44	Direct heterogeneous electron transfer reactions and molecular orientation of fructose dehydrogenase adsorbed onto pyrolytic graphite electrodes. Journal of Electroanalytical Chemistry, 2007, 610, 1-8.	3.8	50
45	Size-tuneable and micro-patterned iron nanoparticles derived from biomolecules via microcontact printing SAM-modified substrates and controlled-potential electrolyses. Journal of Colloid and Interface Science, 2007, 313, 135-140.	9.4	12
46	Effect of electrical stimulation on human immunodeficiency virus type-1 infectivity. Applied Microbiology and Biotechnology, 2007, 77, 947-953.	3.6	7
47	UVâ€“Ozone Treatments Improved Carbon Black Surface for Direct Electron-transfer Reactions with Bilirubin Oxidase under Aerobic Conditions. Chemistry Letters, 2006, 35, 1174-1175.	1.3	51
48	Electrocatalytic oxidation of glucose at goldâ€“silver alloy, silver and gold nanoparticles in an alkaline solution. Journal of Electroanalytical Chemistry, 2006, 590, 37-46.	3.8	188
49	Size control for two-dimensional iron oxide nanodots derived from biological molecules. Journal of Colloid and Interface Science, 2006, 299, 761-765.	9.4	25
50	Electrocatalytic Oxidation of Glucose at Carbon Electrodes Modified with Gold and Goldâ€“Platinum Alloy Nanoparticles in an Alkaline Solution. Chemistry Letters, 2005, 34, 202-203.	1.3	30
51	Electrostatic modification of ferritin onto polypeptide-functionalized indium oxide electrode surfaces: Electrochemical and AFM studies. Journal of Electroanalytical Chemistry, 2005, 579, 51-58.	3.8	20
52	Electrocatalytic oxidation of glucose at gold nanoparticle-modified carbon electrodes in alkaline and neutral solutions. Electrochemistry Communications, 2005, 7, 189-193.	4.7	225
53	UV-ozone dry-cleaning process for indium oxide electrodes for protein electrochemistry. Electrochemistry Communications, 2005, 7, 1423-1428.	4.7	29
54	Effect of phase transition on the electrochemical behavior of ferredoxin embedded in an artificial lipid membrane film. Journal of Electroanalytical Chemistry, 2004, 561, 13-20.	3.8	5

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55	Electrochemical, AFM and QCM studies on ferritin immobilized onto a self-assembled monolayer-modified gold electrode. Journal of Electroanalytical Chemistry, 2004, 566, 323-329.	3.8	67
56	Growth of carbon nanotubes on a gold (111) surface using two-dimensional iron oxide nano-particle catalysts derived from iron storage protein. Chemical Communications, 2004, , 1518.	4.1	29
57	Formation of Water-Soluble Iron Oxide Nanoparticles Derived from Iron Storage Protein. Journal of Nanoscience and Nanotechnology, 2004, 4, 708-711.	0.9	6
58	Dependence of the Electrochemical Response of Ferritin on the Number of Iron Atoms at the Ferritin Core. Chemistry Letters, 2003, 32, 954-955.	1.3	12
59	Electrochemistry in Middle Phase Microemulsion Composed of Saline and Toluene with Sodium Dodecylsulfate and n-Butanol. Chemistry Letters, 2002, 31, 360-361.	1.3	12
60	Direct electrochemistry of iron(III)- and copper(II)-transferrins embedded in a bilayer membrane film composed of artificial cationic-type lipid. Electrochemistry Communications, 2002, 4, 968-972.	4.7	2
61	Electrochemically Regulated Iron Uptake and Release for Ferritin Immobilized on Self-Assembled Monolayer-Modified Gold Electrodes. Chemistry Letters, 2001, 30, 704-705.	1.3	14
62	Artificial Lipid Bilayer Membrane Films-modified Graphite Electrode for Incorporation and Electrochemistry of Horse Spleen Ferritin. Electrochemistry, 2001, 69, 937-939.	1.4	2
63	Thermal Stability and Electrode Reaction of Chlorella Ferredoxin Embedded in Artificial Lipid Bilayer Membrane Films on a Graphite Electrode. Analytical Chemistry, 1999, 71, 2790-2796.	6.5	17
64	Spectroelectrochemical Study of some Î¼₃-Oxo-Î¼-acetato Trinuclear Rhodium(III) and Iridium(III) Complexes. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1995, 50, 551-557.	0.7	7
65	Polypeptide-modified indium oxide electrodes for direct electron tranfer of ferredoxin. Journal of the Chemical Society Chemical Communications, 1994, , 953.	2.0	23
66	Effect of Surface Hydrophilicity of an Indium Oxide Electrode on Direct Electron Transfer of Myoglobins. Chemistry Letters, 1993, 22, 1771-1774.	1.3	54
67	Application of Promoter Modified Electrodes to Bioelectrochemical Measurements on the Effects of Origin and Modification of Lysine Residues of Cytochrome c. Analytical Sciences, 1992, 8, 829-836.	1.6	9
68	Direct electron transfer of horse heart myoglobin at an indium oxide electrode. Journal of Electroanalytical Chemistry, 1992, 333, 331-338.	3.8	135
69	Electrochemistry of Cytochrome c Components at Indium Oxide and Promoter Modified Electrodes. Electrochemistry, 1992, 60, 1043-1049.	0.3	12
70	Electron-transfer reactions of peroxidase at carbon electrodes.. Bunseki Kagaku, 1991, 40, 859-861.	0.2	1