Masato Tominaga

List of Publications by Year
in descending order

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	Electrocatalytic oxidation of glucose at gold nanoparticle-modified carbon electrodes in alkaline and neutral solutions. Electrochemistry Communications, 2005, 7, 189-193.	4.7	225
2	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
3	Direct electron transfer of horse heart myoglobin at an indium oxide electrode. Journal of Electroanalytical Chemistry, 1992, 333, 331-338.	3.8	135
4	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
5	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
6	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
7	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
8	Surface poisoning during electrocatalytic monosaccharide oxidation reactions at gold electrodes in alkaline medium. Electrochemistry Communications, 2007, 9, 1892-1898.	4.7	60
9	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
10	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
11	Effect of Surface Hydrophilicity of an Indium Oxide Electrode on Direct Electron Transfer of Myoglobins. Chemistry Letters, 1993, 22, 1771-1774.	1.3	54
12	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
13	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
14	Laccase Bioelectrocatalyst at a Steroid-Type Biosurfactant-Modified Carbon Nanotube Interface. Analytical Chemistry, 2015, 87, 5417-5421.	6.5	38
15	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
16	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
17	UV-ozone dry-cleaning process for indium oxide electrodes for protein electrochemistry. Electrochemistry Communications, 2005, 7, 1423-1428.	4.7	29
18	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

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19	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
20	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
21	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
22	Polypeptide-modified indium oxide electrodes for direct electron tranfer of ferredoxin. Journal of the Chemical Society Chemical Communications, 1994, , 953.	2.0	23
23	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
24	Oxidative corrosion potential vs. pH diagram for single-walled carbon nanotubes. RSC Advances, 2014, 4, 27224.	3.6	21
25	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
26	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
27	Cellulose nanofiber-based electrode as a component of an enzyme-catalyzed biofuel cell. RSC Advances, 2020, 10, 22120-22125.	3.6	18
28	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
29	Effect of N-Doping of Single-Walled Carbon Nanotubes on Bioelectrocatalysis of Laccase. Analytical Chemistry, 2014, 86, 5053-5060.	6.5	17
30	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
31	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
32	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
33	Controlled-potential electrosynthesis of glucosaminic acid from glucosamine at a gold electrode. Electrochemistry Communications, 2007, 9, 911-914.	4.7	14
34	Correlation between carbon oxygenated species of SWCNTs and the electrochemical oxidation reaction of NADH. Electrochemistry Communications, 2013, 31, 76-79.	4.7	13
35	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
36	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

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37	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
38	Electrochemistry of Cytochrome c Components at Indium Oxide and Promoter Modified Electrodes. Electrochemistry, 1992, 60, 1043-1049.	0.3	12
39	Electrochemical Investigation of Dynamic Solution Structures of Bicontinuous Microemulsion at Solid Interfaces. Chemistry Letters, 2010, 39, 1152-1154.	1.3	11
40	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
41	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
42	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
43	Sensitivity to electrical stimulation of human immunodeficiency virus type 1 and MAGIC-5 cells. AMB Express, 2011, 1, 23.	3.0	8
44	Determination of the Diameterâ€Dependent Onset Potential for the Oxygenation of SWCNTs. Chemistry - an Asian Journal, 2013, 8, 2680-2684.	3.3	8
45	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
46	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
47	Effect of electrical stimulation on human immunodeficiency virus type-1 infectivity. Applied Microbiology and Biotechnology, 2007, 77, 947-953.	3.6	7
48	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
49	Biosurfactant functionalized single-walled carbon nanotubes to promote laccase bioelectrocatalysis. New Journal of Chemistry, 2017, 41, 231-236.	2.8	7
50	Formation of Water-Soluble Iron Oxide Nanoparticles Derived from Iron Storage Protein. Journal of Nanoscience and Nanotechnology, 2004, 4, 708-711.	0.9	6
51	Effect of Surface-oxidized Structure of Single-walled Carbon Nanotubes on Heterogeneous Direct Electron-transfer Reaction of Cytochrome <i>c</i>. Chemistry Letters, 2010, 39, 976-977.	1.3	6
52	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
53	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
54	Effect of oxygen adsorption on the electrochemical oxidative corrosion of single-walled carbon nanotubes. RSC Advances, 2014, 4, 53833-53836.	3.6	4

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55	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
56	The use of mud as an alternative source for bioelectricity using microbial fuel cells. AIP Conference Proceedings, 2017, , .	0.4	3
57	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
58	Fluorescence spectrophotometry for COVID-19 determination in clinical swab samples. Arabian Journal of Chemistry, 2022, 15, 104020.	4.9	3
59	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
60	Catalytic Current Based on Direct Electron Transfer Reactions of Enzymes Immobilized onto Carbon Nanotubes. ECS Transactions, 2009, 16, 1-8.	0.5	2
61	Improvement of laccase bioelectrocatalyst at a phosphate templating graphene nanoplatelet plate electrode. Electrochemistry Communications, 2015, 59, 32-35.	4.7	2
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	Electron-transfer reactions of peroxidase at carbon electrodes.. Bunseki Kagaku, 1991, 40, 859-861.	0.2	1
64	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
65	Redox Reaction of Ferritin Immobilized onto SAMs- and Polypeptides-Modified Electrodes. Review of Polarography, 2010, 56, 67-80.	0.1	0
66	Cholate Adsorption Behavior at Carbon Electrode Interface and Its Promotional Effect in Laccase Direct Bioelectrocatalysis. Colloids and Interfaces, 2018, 2, 33.	2.1	0
67	Temperature depending bioelectrocatalysis current of multicopper oxidase from a hyperthermophilic archaeon Pyrobaculum aerophilum. Electrochemistry Communications, 2021, 125, 106982.	4.7	0
68	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
69	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
70	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