

# Auro Atsushi Tanaka

## List of Publications by Year in descending order

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102  
papers

2,892  
citations

172207

29  
h-index

205818

48  
g-index

104  
all docs

104  
docs citations

104  
times ranked

3363  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrocatalytic activity of metal phthalocyanines for oxygen reduction. <i>Journal of Electroanalytical Chemistry</i> , 1992, 339, 13-30.	1.9	285
2	Transition metal macrocycles supported on high area carbon: Pyrolysis-MS mass spectrometry studies. <i>Electrochimica Acta</i> , 1986, 31, 1247-1258.	2.6	134
3	Determination of nitrite in food samples by anodic voltammetry using a modified electrode. <i>Food Chemistry</i> , 2009, 113, 1206-1211.	4.2	123
4	Amperometric sensor for nitrite using a glassy carbon electrode modified with alternating layers of iron(III) tetra-(N-methyl-4-pyridyl)-porphyrin and cobalt(II) tetrasulfonated phthalocyanine. <i>Talanta</i> , 2006, 70, 588-594.	2.9	102
5	Dissolved oxygen sensor based on cobalt tetrasulphonated phthalocyanine immobilized in poly-L-lysine film onto glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 1019-1027.	4.0	74
6	Development of an enzymeless biosensor for the determination of phenolic compounds. <i>Analytica Chimica Acta</i> , 2002, 455, 215-223.	2.6	65
7	A hemin-based molecularly imprinted polymer (MIP) grafted onto a glassy carbon electrode as a selective sensor for 4-aminophenol amperometric. <i>Sensors and Actuators B: Chemical</i> , 2011, 152, 220-225.	4.0	65
8	Electrochemical Sensor for Hydrazine Based on Silica Modified with Nickel Tetrasulfonated Phthalocyanine. <i>Electroanalysis</i> , 1998, 10, 111-115.	1.5	63
9	Nickel-palladium electrocatalysts for methanol, ethanol, and glycerol oxidation reactions. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16118-16126.	3.8	63
10	Anodic oxidation of cysteine catalysed by nickel tetrasulphonated phthalocyanine immobilized on silica gel modified with titanium (IV) oxide. <i>Electrochimica Acta</i> , 1998, 43, 1665-1673.	2.6	61
11	Application of the Flooded-Agglomerate Model to Study Oxygen Reduction on Thin Porous Coating Rotating Disk Electrode. <i>Journal of the Electrochemical Society</i> , 1994, 141, 431-436.	1.3	60
12	Tris (2,2'-bipyridil) copper (II) chloride complex: a biomimetic tyrosinase catalyst in the amperometric sensor construction. <i>Electrochimica Acta</i> , 2003, 48, 855-865.	2.6	60
13	Synthesis and structural and theoretical characterization of a nickel(0) complex of tribenzocyclyne (TBC) and the preparation of a novel organometallic conductor. <i>Organometallics</i> , 1989, 8, 2089-2098.	1.1	57
14	Underpotential deposition of copper and its influence in the oxygen reduction on platinum. <i>Electrochimica Acta</i> , 1991, 36, 1325-1331.	2.6	52
15	Voltammetric detection of paraquat pesticide on a phthalocyanine-based pyrolytic graphite electrode. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1907-1914.	1.9	52
16	Electrochemical Properties of Iron Phthalocyanine Immobilized on Titanium(IV) Oxide Coated on Silica Gel Surface. <i>Langmuir</i> , 1995, 11, 1009-1013.	1.6	51
17	Acetaldehyde electrooxidation: The influence of concentration on the yields of parallel pathways. <i>Journal of Electroanalytical Chemistry</i> , 2007, 600, 236-242.	1.9	45
18	Oxygen reduction on adsorbed iron tetrapyrrolineporphyrin. <i>Materials Chemistry and Physics</i> , 1989, 22, 431-456.	2.0	43

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19	Dissolved oxygen amperometric sensor based on layer-by-layer assembly using host-guest supramolecular interactions. <i>Analytica Chimica Acta</i> , 2010, 664, 144-150.	2.6	42
20	Development of an amperometric sensor for phenol compounds using a Nafion® membrane doped with copper dipyrindyl complex as a biomimetic catalyst. <i>Journal of Electroanalytical Chemistry</i> , 2002, 536, 71-81.	1.9	40
21	Amperometric sensor for nitrite based on copper tetrasulphonated phthalocyanine immobilized with poly-L-lysine film. <i>Talanta</i> , 2008, 75, 333-338.	2.9	40
22	Electrocatalytic Oxidation and Voltammetric Determination of Hydrazine in Industrial Boiler Feed Water Using a Cobalt Phthalocyanine-modified Electrode. <i>Analytical Letters</i> , 2008, 41, 1010-1021.	1.0	39
23	Iron(III) tetra-(N-methyl-4-pyridyl)-porphyrin as a biomimetic catalyst of horseradish peroxidase on the electrode surface: An amperometric sensor for phenolic compound determinations. <i>Analyst</i> , 2003, 128, 255-259.	1.7	37
24	Electrocatalytic oxidation of hydrazine in alkaline media promoted by iron tetrapyrrolineporphyrin adsorbed on graphite surface. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 720-726.	0.6	36
25	In situ immobilization of nickel(II) phthalocyanine on mesoporous SiO <sub>2</sub> /C carbon ceramic matrices prepared by the sol-gel method: Use in the simultaneous voltammetric determination of ascorbic acid and dopamine. <i>Electrochimica Acta</i> , 2013, 87, 140-147.	2.6	36
26	Cobalt tetrasulphonated phthalocyanine immobilized on poly-L-lysine film onto glassy carbon electrode as amperometric sensor for cysteine. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 42, 184-191.	1.4	34
27	A highly sensitive amperometric sensor for oxygen based on iron(II) tetrasulfonated phthalocyanine and iron(III) tetra-(N-methyl-pyridyl)-porphyrin multilayers. <i>Analytica Chimica Acta</i> , 2008, 612, 29-36.	2.6	33
28	Nonuniform Synergistic Effect of Sn and Ru in Site-Specific Catalytic Activity of Pt at Bimetallic Surfaces toward CO Electro-oxidation. <i>ACS Catalysis</i> , 2017, 7, 3434-3445.	5.5	33
29	FIA-potentiometry in the sub-Nernstian response region for rapid and direct chloride assays in milk and in coconut water. <i>Talanta</i> , 2005, 67, 651-657.	2.9	31
30	Quantification of N-acetylcysteine in pharmaceuticals using cobalt phthalocyanine modified graphite electrodes. <i>Talanta</i> , 2011, 83, 1701-1706.	2.9	30
31	Electrocatalysis of reduced L-glutathione oxidation by iron(III) tetra-(N-methyl-4-pyridyl)-porphyrin (FeT4MPyP) adsorbed on multi-walled carbon nanotubes. <i>Talanta</i> , 2008, 76, 1097-1104.	2.9	28
32	Palladium-platinum electrocatalysts for the ethanol oxidation reaction: comparison of electrochemical activities in acid and alkaline media. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1471-1481.	1.2	28
33	Bioactivity and properties of an adhesive system functionalized with an experimental niobium-based glass. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 78, 188-195.	1.5	28
34	Electrocatalytic determination of reduced glutathione in human erythrocytes. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1891-1897.	1.9	26
35	Electrocatalytic activity of 2,3,5,6-tetrachloro-1,4-benzoquinone/multi-walled carbon nanotubes immobilized on edge plane pyrolytic graphite electrode for NADH oxidation. <i>Electrochimica Acta</i> , 2008, 53, 4706-4714.	2.6	26
36	Manganese phthalocyanine as a biomimetic electrocatalyst for phenols in the development of an amperometric sensor. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, 1180-1187.	0.6	26

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37	Fast quantification of $\hat{L}$ -lipoic acid in biological samples and dietary supplements using batch injection analysis with amperometric detection. <i>Talanta</i> , 2016, 154, 249-254.	2.9	26
38	Electrochemical sensor highly selective for estradiol valerate determination based on a modified carbon paste with iron tetrapyrroline. <i>Analyst</i> , 2008, 133, 1692.	1.7	25
39	Removal of Remazol brilliant violet textile dye by adsorption using rice hulls. <i>Polimeros</i> , 2017, 27, 16-26.	0.2	24
40	Photoelectrochemical determination of tert-butylhydroquinone in edible oil samples employing CdSe/ZnS quantum dots and LiTCNE. <i>Food Chemistry</i> , 2017, 227, 16-21.	4.2	23
41	Oxygen reduction electrocatalysis on transition metal-nitrogen modified tungsten carbide nanomaterials. <i>Journal of Electroanalytical Chemistry</i> , 2018, 810, 222-231.	1.9	23
42	The hydrogen evolution reaction on mild steel and nickel-iron codeposits in alkaline media. <i>International Journal of Hydrogen Energy</i> , 1984, 9, 689-693.	3.8	22
43	Determination of $\hat{L}$ -lipoic acid on a Pyrolytic Graphite Electrode Modified with Cobalt Phthalocyanine. <i>Electroanalysis</i> , 2014, 26, 2138-2144.	1.5	22
44	Flow injection analysis of paracetamol using a biomimetic sensor as a sensitive and selective amperometric detector. <i>Analytical Methods</i> , 2010, 2, 507.	1.3	21
45	Underpotential deposition of lead on polycrystalline platinum and its influence on the oxygen reduction reaction. <i>Electrochimica Acta</i> , 1994, 39, 2591-2597.	2.6	20
46	Electrooxidation of isotope-labeled ethanol: a FTIRS study. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 1465-1469.	1.2	20
47	On the apparent lack of preferential site occupancy and electrooxidation of CO adsorbed at low coverage onto stepped platinum surfaces. <i>Electrochemistry Communications</i> , 2011, 13, 338-341.	2.3	20
48	Site-specific catalytic activity of model platinum surfaces in different electrolytic environments as monitored by the CO oxidation reaction. <i>Journal of Catalysis</i> , 2017, 345, 216-227.	3.1	20
49	Free radical coupling reactions of organoiron complexes: electrochemical studies and preliminary cross coupling experiments. <i>Journal of the Chemical Society Chemical Communications</i> , 1987, , 155.	2.0	19
50	Electrochemical oxidation of the antitumor antibiotic mitomycin C and in situ evaluation of its interaction with DNA using a DNA-electrochemical biosensor. <i>Microchemical Journal</i> , 2017, 133, 81-89.	2.3	19
51	Determination of the catechin contents of bioactive plant extracts using disposable screen-printed carbon electrodes in a batch injection analysis (BIA) system. <i>Microchemical Journal</i> , 2019, 146, 1249-1254.	2.3	19
52	Batch injection analysis with electrochemical detection for the simultaneous determination of the diuretics furosemide and hydrochlorothiazide in synthetic urine and pharmaceutical samples. <i>Microchemical Journal</i> , 2020, 157, 105027.	2.3	19
53	Self-assembled monolayers formed by $[M(CN)_5(pyS)]_4^{4-}$ (M = Fe, Ru) on gold: a comparative study on stability and efficiency to assess the cyt c heterogeneous electron transfer reaction. <i>Dalton Transactions</i> , 2003, , 2231-2236.	1.6	18
54	Effects of solution heat treatment on grain growth and degree of sensitization of AISI 321 austenitic stainless steel. <i>Journal of Materials Science</i> , 2006, 41, 2381-2386.	1.7	18

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55	The electrocatalytic activity of a supramolecular assembly of CoTsPc/FeT4MPyP on multi-walled carbon nanotubes towards L-glutathione, and its determination in human erythrocytes. <i>Mikrochimica Acta</i> , 2010, 171, 169-178.	2.5	18
56	A fast, direct, and sensitive analysis method for catechin determination in green tea by batch injection analysis with multiple-pulse amperometry (BIA-MPA). <i>Analytical Methods</i> , 2018, 10, 2034-2040.	1.3	18
57	Identity of the Most and Least Active Sites for Activation of the Pathways for CO <sub>2</sub> Formation from the Electro-oxidation of Methanol and Ethanol on Platinum. <i>ACS Catalysis</i> , 2020, 10, 543-555.	5.5	18
58	Spectroscopic and electrochemical studies of transition-metal tetrasulfonated phthalocyanines. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987, 229, 285-296.	0.3	17
59	Investigations of nanometric films of doped polyaniline by using electrochemical surface plasmon resonance and electrochemical quartz crystal microbalance. <i>Journal of Electroanalytical Chemistry</i> , 2006, 589, 70-81.	1.9	17
60	Construction and application of an electrochemical sensor for paracetamol determination based on iron tetrapyrrolineporphyrin as a biomimetic catalyst of P450 enzyme. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 734-743.	0.6	17
61	About the SDS inclusion in PDMS/TEOS ORMOSIL: a vibrational spectroscopy and confocal Raman scattering study. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1601-1605.	1.2	17
62	Microcystin-LR and chemically degraded microcystin-LR electrochemical oxidation. <i>Analyst</i> , 2012, 137, 1904.	1.7	17
63	Rapid and sensitivity determination of macrolides antibiotics using disposable electrochemical sensor based on Super P carbon black and chitosan composite. <i>Microchemical Journal</i> , 2022, 172, 106939.	2.3	17
64	Investigation of iron phthalocyanine modified polypyrrole electrodes by in situ UV-visible differential reflectance spectroscopy. <i>Electrochimica Acta</i> , 1994, 39, 889-898.	2.6	16
65	A glassy carbon electrode modified with an iron N4-macrocycle and reduced graphene oxide for voltammetric sensing of dissolved oxygen. <i>Mikrochimica Acta</i> , 2016, 183, 1251-1259.	2.5	16
66	Development of magnetic nanoparticles modified with new molecularly imprinted polymer (MIPs) for selective analysis of glutathione. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130171.	4.0	16
67	Theoretical study of dibenzotetraaza[14]annulene complexes with first row transition metals. <i>Computational and Theoretical Chemistry</i> , 2015, 1054, 93-99.	1.1	15
68	Flow-through amperometric determination of ampicillin using a copper electrode in a batch injection analysis system. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 155, 107516.	2.5	15
69	Ultrasensitive Biosensor for Detection of Organophosphorus Pesticides Based on a Macrocycle Complex/Carbon Nanotubes Composite and 1-Methyl-3-octylimidazolium Tetrafluoroborate as Binder Compound. <i>Analytical Sciences</i> , 2015, 31, 29-35.	0.8	14
70	Electrochemical behaviour of anticancer drug lomustine and in situ evaluation of its interaction with DNA. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 176, 112786.	1.4	13
71	Alternating Layers of Iron(III) Tetra(4-methylpyridyl)porphyrin and Copper Tetrasulfonated Phthalocyanine for Amperometric Detection of 4-Nitrophenol in Nanomolar Levels. <i>Electroanalysis</i> , 2008, 20, 2333-2339.	1.5	12
72	Evaluation of pH, ultimate tensile strength, and micro-shear bond strength of two self-adhesive resin cements. <i>Brazilian Oral Research</i> , 2014, 28, 1-7.	0.6	12

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73	5-(4-pyridinyl)-1,3,4-oxadiazole-2-thiol on gold: SAM Formation and electroactivity. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 711-719.	0.6	11
74	CO bonding in FeN <sub>4</sub> complexes and the effect of the macrocycle ligand: A DFT study. <i>Polyhedron</i> , 2014, 67, 36-43.	1.0	11
75	Nanoengineering of Catalysts for Enhanced Hydrogen Production. <i>Hydrogen</i> , 2022, 3, 218-254.	1.7	11
76	Development of a new procedure for the determination of captopril in pharmaceutical formulations employing chemiluminescence and a multicommuted flow analysis approach. <i>Luminescence</i> , 2016, 31, 288-294.	1.5	10
77	Study of Oxygen Reduction Reaction in Sulfuric Acid on Thin Porous Electrodes Composed of Carbon and Platinum. <i>Electrochemistry</i> , 1996, 64, 436-442.	0.3	10
78	Underpotential deposition of cadmium on polycrystalline platinum and its influence in the oxygen reduction reaction. <i>Electrochimica Acta</i> , 1992, 37, 2559-2564.	2.6	9
79	Application of a biomimetic sensor based on iron phthalocyanine chloride: 4-methylbenzylidene-camphor detection. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 1377-1383.	0.6	9
80	Quantum chemical DFT study of the interaction between molecular oxygen and FeN <sub>4</sub> complexes, and effect of the macrocyclic ligand. <i>Journal of Molecular Modeling</i> , 2014, 20, 2131.	0.8	9
81	A Novel Sensor Based on Manganese azo-Macrocycle/Carbon Nanotubes to Perform the Oxidation and Reduction Processes of Two Diphenol Isomers. <i>Electroanalysis</i> , 2014, 26, 602-611.	1.5	9
82	Anodic Stripping Voltammetric Determination of Lead (II) and Cadmium (II) by Using a Carbon Nanotubes Paste Electrode Modified with Ion Exchange Synthetic Resin. <i>Current Analytical Chemistry</i> , 2012, 8, 520-527.	0.6	8
83	Studies of the Electrochemical Degradation of Acetaminophen Using a Real-Time Biomimetic Sensor. <i>Electroanalysis</i> , 2011, 23, 2616-2621.	1.5	7
84	Use of Direct Current Resistivity Measurements to Assess AISI 304 Austenitic Stainless Steel Sensitization. <i>Materials Research</i> , 2015, 18, 341-346.	0.6	7
85	Theoretical study of the interaction between molecular oxygen and tetraaza macrocyclic manganese complexes. <i>Journal of Molecular Modeling</i> , 2016, 22, 217.	0.8	7
86	Monitoring of CO Binding Sites on Stepped Pt Single Crystal Electrodes in Alkaline Solutions by in Situ FTIR Spectroscopy. <i>Langmuir</i> , 2020, 36, 704-714.	1.6	7
87	Effect of different times of solvent evaporation and pH in two self-etching adhesive systems on the shear bond strength of metallic orthodontic brackets. <i>International Journal of Adhesion and Adhesives</i> , 2014, 50, 223-227.	1.4	6
88	Surface Defects as Ingredients That Can Improve or Inhibit the Pathways for CO Oxidation at Low Overpotentials Using Pt(111)-Type Catalysts. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26583-26595.	1.5	6
89	Mechanistic studies of the hydrogen evolution reaction on tungsten under water electrolysis conditions. <i>International Journal of Hydrogen Energy</i> , 1986, 11, 455-458.	3.8	5
90	Selective UV-filter detection with sensors based on stainless steel electrodes modified with polyaniline doped with metal tetrasulfonated phthalocyanine films. <i>Analyst</i> , The, 2009, 134, 1453.	1.7	5

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91	Development of an electroactive layer-by-layer assembly based on host-guest supramolecular interactions. <i>Journal of Electroanalytical Chemistry</i> , 2010, 639, 36-42.	1.9	5
92	Sensitive Electroanalytical Detection on GCE: the Case of Lipoic Acid and its Interaction with <i>N</i> -acetylcyteine and Glutathione. <i>Electroanalysis</i> , 2016, 28, 2818-2826.	1.5	5
93	A Project for the Electrochemical Production and Utilization of Hydrogen in Brazil. <i>Energy Sources Part A Recovery, Utilization, and Environmental Effects</i> , 1989, 11, 53-58.	0.5	4
94	Flow-through amperometric methods for detection of the bioactive compound quercetin: performance of glassy carbon and screen-printed carbon electrodes. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 1759-1768.	1.2	4
95	Ionic properties of an organic-inorganic sol-gel hybrid based on polydimethylsiloxane and tetraethoxysilane doped with sodium dodecyl sulfate. <i>Journal of Applied Polymer Science</i> , 2010, 115, 851-854.	1.3	3
96	Electroanalysis of Hydrazine and Related Compounds by Oxidation Promoted with MN4 Macrocyclics. , 2016, , 201-223.		3
97	Voltammetric and spectrophotometric studies of toxic disinfection by-product 2,6-dichloro-1,4-benzoquinone and its behavior with DNA. <i>Chemical Papers</i> , 2022, 76, 575-583.	1.0	2
98	Desenvolvimento de conjunto membrana-eletrodos para célula a combustível de metanol direto passiva. <i>Quimica Nova</i> , 2010, 33, 1313-1319.	0.3	1
99	Density functional theory study of interactions between carbon monoxide and iron tetraaza macrocyclic complexes, FeTAA (X=Cl, OH, OCH <sub>3</sub> , NH <sub>2</sub> , and NO <sub>2</sub> ). <i>Journal of Molecular Modeling</i> , 2017, 23, 64.	0.8	1
100	Electrochemical Behavior of Unusual Dimeric Flavonoids Isolated from <i>Fridericia platyphylla</i> . <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	0
101	Development of a Procedure Based on Chemiluminescence and Multicommutation Approach for the Determination of Folic Acid in Pharmaceuticals. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	0
102	AUTOMATIC PROCEDURE FOR SPECTROPHOTOMETRIC DETERMINATION OF HYDROQUINONE EMPLOYING MULTICOMMUTATION FLOW IN ANALYSIS SYSTEM. <i>Quimica Nova</i> , 2016, , .	0.3	0