

Behzad Haghghi

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.

94
papers

2,087
citations

25
h-index

42
g-index

97
ext. papers

2,346
ext. citations

4.4
avg, IF

5.2
L-index

#	Paper	IF	Citations
94	Fabrication and Characterization of a Low-Cost Micro-Volume Electrochemical Cell Using PCB for Electroanalytical Applications. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 057517	3.9	
93	Photo-electrochemistry of metallic titanium/mixed phase titanium oxide. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 19433-19445	6.7	5
92	Investigation of photo-electrochemical response of iron oxide/mixed-phase titanium oxide heterojunction toward possible solar energy conversion. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 7241-7253	6.7	10
91	One-step synthesis of graphitic carbon-nitride doped with black-red phosphorus as a novel, efficient and free-metal bifunctional catalyst and its application for electrochemical overall water splitting. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 3229-3239	5.8	1
90	Photoelectrochemistry of manganese oxide/mixed phase titanium oxide heterojunction. <i>New Journal of Chemistry</i> , 2020 , 44, 3514-3523	3.6	8
89	NiCoO ₂ -carbon composite as an efficient bifunctional catalyst for electrochemical water splitting. <i>Ionics</i> , 2020 , 26, 3959-3967	2.7	1
88	Investigation of the photoelectrochemical properties of layered manganese oxide. <i>New Journal of Chemistry</i> , 2019 , 43, 4049-4058	3.6	4
87	A survey on the effect of ionic liquid on electrochemical behavior and electrocatalytic activity of a phosphomolybdic acid-ionic liquid-MWCNT ₅ modified glassy carbon electrode. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 1339-1350	2.6	2
86	A simple, facile and low-cost method for the preparation of mixed-phase titanium oxide: toward efficient photoelectrochemical water oxidation. <i>New Journal of Chemistry</i> , 2019 , 43, 6989-7000	3.6	6
85	AgCuO ₂ as a novel bifunctional electrocatalyst for overall water splitting in alkaline media. <i>New Journal of Chemistry</i> , 2019 , 43, 4633-4639	3.6	4
84	Carbon paste electrode modified with AgFeO ₂ as an electrocatalyst with excellent activity for water reduction and oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 836, 158-164	4.1	5
83	Substrate Preference Pattern of <i>Agaricus meleagris</i> Pyranose Dehydrogenase Evaluated through Bioelectrochemical Flow Injection Amperometry. <i>ChemElectroChem</i> , 2019 , 6, 801-809	4.3	3
82	Magnetic nanofibrous polyaniline nanocomposite for solid-phase extraction of naproxen from biological samples prior to its spectrofluorimetric determination. <i>Journal of the Iranian Chemical Society</i> , 2018 , 15, 1209-1221	2	2
81	Interaction of polymer-coated gold nanoparticles with cellobiose dehydrogenase: The role of surface charges. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 819, 226-233	4.1	9
80	Immobilization of glucose oxidase on ZnO nanorods decorated electrolyte-gated field effect transistor for glucose detection. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 61-67	2.6	22
79	Direct Electron Transfer of Cellobiose Dehydrogenase on Positively Charged Polyethyleneimine Gold Nanoparticles. <i>ChemPlusChem</i> , 2017 , 82, 510	2.8	
78	Amperometric hydrazine sensor using a glassy carbon electrode modified with gold nanoparticle-decorated multiwalled carbon nanotubes. <i>Mikrochimica Acta</i> , 2017 , 184, 4537-4543	5.8	22

77	Direct Electron Transfer of Cellobiose Dehydrogenase on Positively Charged Polyethyleneimine Gold Nanoparticles. <i>ChemPlusChem</i> , 2017 , 82, 546-552	2.8	21
76	Enhanced electrochemiluminescence of ZnO nanoparticles decorated on multiwalled carbon nanotubes in the presence of peroxydisulfate. <i>Mikrochimica Acta</i> , 2016 , 183, 1487-1492	5.8	6
75	Fabrication of a sensitive amperometric sensor for NADH and H ₂ O ₂ using palladium nanoparticles-multiwalled carbon nanotube nanohybrid. <i>Materials Science and Engineering C</i> , 2016 , 62, 423-8	8.3	19
74	Improved electrogenerated chemiluminescence of luminol by cobalt nanoparticles decorated multi-walled carbon nanotubes. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 762, 80-86	4.1	16
73	Fabrication of a third-generation glucose biosensor using graphene-polyethyleneimine-gold nanoparticles hybrid. <i>Sensors and Actuators B: Chemical</i> , 2016 , 232, 454-461	8.5	56
72	Fabrication of a liquid-gated enzyme field effect device for sensitive glucose detection. <i>Analytica Chimica Acta</i> , 2016 , 924, 99-105	6.6	20
71	Fabrication of a highly efficient solid state electrochemiluminescence sensor using Ru(bpy) ₃ ²⁺ incorporated nanoZnO-MWCNTs-Nafion composite film. <i>Electrochimica Acta</i> , 2015 , 164, 211-217	6.7	20
70	An engineered polypeptide around nano-sized manganese-calcium oxide: copying plants for water oxidation. <i>Dalton Transactions</i> , 2015 , 44, 15271-8	4.3	18
69	Fabrication of a nonenzymatic glucose sensor using Pd-nanoparticles decorated ionic liquid derived fibrillated mesoporous carbon. <i>Materials Science and Engineering C</i> , 2015 , 52, 219-24	8.3	25
68	Comparison of nano-sized Mn oxides with the Mn cluster of photosystem II as catalysts for water oxidation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015 , 1847, 294-306	4.6	25
67	Cathodic electrogenerated chemiluminescence of luminol on glassy carbon electrode modified with cobalt nanoparticles decorated multi-walled carbon nanotubes. <i>Electrochimica Acta</i> , 2015 , 154, 259-265	6.7	17
66	A nano-sized manganese oxide in a protein matrix as a natural water-oxidizing site. <i>Plant Physiology and Biochemistry</i> , 2014 , 81, 3-15	5.4	9
65	Nano-sized manganese-calcium cluster in photosystem II. <i>Biochemistry (Moscow)</i> , 2014 , 79, 324-36	2.9	8
64	Nanostructured manganese oxide/carbon nanotubes, graphene and graphene oxide as water-oxidizing composites in artificial photosynthesis. <i>Dalton Transactions</i> , 2014 , 43, 10866-76	4.3	43
63	The effect of different metal ions between nanolayers of manganese oxide on water oxidation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014 , 141, 247-52	6.7	13
62	Nano-sized layered manganese oxide in a poly-L-glutamic acid matrix: a biomimetic, homogenized, heterogeneous structural model for the water-oxidizing complex in photosystem II. <i>RSC Advances</i> , 2014 , 4, 39077-39081	3.7	7
61	Effect of copper and nitrogen nutrients on diosgenin production in fenugreek. <i>Archives of Agronomy and Soil Science</i> , 2014 , 60, 1115-1124	2	3
60	Electrochemical Behavior of Glucose Oxidase Immobilized on Pd-Nanoparticles Decorated Ionic Liquid Derived Fibrillated Mesoporous Carbon. <i>Electroanalysis</i> , 2014 , 26, 2010-2016	3	10

59	Fabrication of gallium hexacyanoferrate modified carbon ionic liquid paste electrode for sensitive determination of hydrogen peroxide and glucose. <i>Materials Science and Engineering C</i> , 2014 , 40, 204-11	8.3	23
58	Direct electron transfer from glucose oxidase immobilized on an overoxidized polypyrrole film decorated with Au nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 103, 566-71	6	43
57	Imidazolium or guanidinium/layered manganese (III, IV) oxide hybrid as a promising structural model for the water-oxidizing complex of Photosystem II for artificial photosynthetic systems. <i>Photosynthesis Research</i> , 2013 , 117, 413-21	3.7	6
56	Nanolayered manganese oxide/poly(4-vinylpyridine) as a biomimetic and very efficient water oxidizing catalyst: toward an artificial enzyme in artificial photosynthesis. <i>Chemical Communications</i> , 2013 , 49, 8824-6	5.8	51
55	Conversions of Mn oxides to nanolayered Mn oxide in electrochemical water oxidation at near neutral pH, all to a better catalyst: catalyst evolution. <i>Dalton Transactions</i> , 2013 , 42, 16683-6	4.3	56
54	Nano-size layered manganese-calcium oxide as an efficient and biomimetic catalyst for water oxidation under acidic conditions: comparable to platinum. <i>Dalton Transactions</i> , 2013 , 42, 5085-91	4.3	38
53	A 2-(2-hydroxyphenyl)-1H-benzimidazole-manganese oxide hybrid as a promising structural model for the tyrosine 161/histidine 190-manganese cluster in photosystem II. <i>Dalton Transactions</i> , 2013 , 42, 879-84	4.3	38
52	Green-synthesis of reduced graphene oxide nanosheets using rose water and a survey on their characteristics and applications. <i>RSC Advances</i> , 2013 , 3, 13365	3.7	81
51	Development of flow injection spectrofluorimetric detection system for the determination of homocysteine. <i>Journal of Fluorescence</i> , 2012 , 22, 365-71	2.4	2
50	Fabrication and Application of a Sensitive and Highly Stable Copper Hexacyanoferrate Modified Carbon Ionic Liquid Paste Electrode for Hydrogen Peroxide and Glucose Detection. <i>Electroanalysis</i> , 2012 , 24, 2165-2175	3	11
49	A manganese oxide with phenol groups as a promising structural model for water oxidizing complex in Photosystem II: a golden fish. <i>Dalton Transactions</i> , 2012 , 41, 3906-10	4.3	52
48	Fabrication of a highly sensitive electrochemiluminescence lactate biosensor using ZnO nanoparticles decorated multiwalled carbon nanotubes. <i>Talanta</i> , 2011 , 85, 2189-93	6.2	63
47	Second-order data obtained from differential pulse voltammetry: Determination of tryptophan at a gold nanoparticles decorated multiwalled carbon nanotube modified glassy carbon electrode. <i>Electrochimica Acta</i> , 2011 , 56, 8618-8624	6.7	55
46	Direct electron transfer from glucose oxidase immobilized on a nano-porous glassy carbon electrode. <i>Electrochimica Acta</i> , 2011 , 56, 10101-10106	6.7	24
45	Enhanced electrochemiluminescence from luminol at multi-walled carbon nanotubes decorated with palladium nanoparticles: a novel route for the fabrication of an oxygen sensor and a glucose biosensor. <i>Analytica Chimica Acta</i> , 2011 , 697, 90-7	6.6	68
44	Fabrication of a novel electrochemiluminescence glucose biosensor using Au nanoparticles decorated multiwalled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 577-583	8.5	52
43	Fabrication and Characterization of a Thin-Layer Electrochemical Flow Cell and Its Application for Flow Analysis. <i>Analytical Letters</i> , 2011 , 44, 258-270	2.2	6
42	Sensitive and selective determination of hydrazine using glassy carbon electrode modified with Pd nanoparticles decorated multiwalled carbon nanotubes. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1411-6	4.4	41

41	Formation of a robust and stable film comprising ionic liquid and polyoxometalate on glassy carbon electrode modified with multiwalled carbon nanotubes: Toward sensitive and fast detection of hydrogen peroxide and iodate. <i>Electrochimica Acta</i> , 2010 , 55, 4750-4757	6.7	69
40	Determination of a potential energy function for nitrogen trifluoride by inversion of the new reduced viscosity collision integrals at zero density. <i>Chemical Physics</i> , 2010 , 369, 59-65	2.3	8
39	Flow injection chemiluminescence determination of isoniazid using luminol and silver nanoparticles. <i>Microchemical Journal</i> , 2010 , 95, 192-197	4.8	84
38	Electrochemical behavior and application of Prussian blue nanoparticle modified graphite electrode. <i>Sensors and Actuators B: Chemical</i> , 2010 , 147, 270-276	8.5	89
37	Electrochemical Characterization and Application of Carbon Ionic Liquid Electrodes Containing 1 : 12 Phosphomolybdic Acid. <i>Electroanalysis</i> , 2009 , 21, 1057-1065	3	25
36	Prussian Blue Modified Carbon Ionic Liquid Electrode: Electrochemical Characterization and Its Application for Hydrogen Peroxide and Glucose Measurements. <i>Electroanalysis</i> , 2009 , 21, 1862-1868	3	25
35	Viscosity Prediction for Oxygen, Nitrogen and Their Mixtures at Zero and Moderately Dense Regimes via Semi-Empirically Based Assessment. <i>Journal of the Chinese Chemical Society</i> , 2008 , 55, 245-254	1.5	1
34	A Simple, Low-cost and Sensitive Approach for Chemiluminescence Detection in Flow Systems. <i>Analytical Letters</i> , 2007 , 40, 2425-2432	2.2	1
33	Carbon Ceramic Electrodes Modified with Laccase from <i>Trametes hirsuta</i> : Fabrication, Characterization and Their Use for Phenolic Compounds Detection. <i>Electroanalysis</i> , 2007 , 19, 907-917	3	29
32	Effect of Various Deposition Techniques, Electrode Materials and Posttreatment with Tetrabutylammonium and Tetrabutylphosphonium Salts on the Electrochemical Behavior and Stability of Various Prussian Blue Modified Electrodes. <i>Electroanalysis</i> , 2007 , 19, 1921-1932	3	5
31	Electrical wiring of <i>Pseudomonas putida</i> and <i>Pseudomonas fluorescens</i> with osmium redox polymers. <i>Bioelectrochemistry</i> , 2007 , 71, 38-45	5.6	45
30	LC Determination of Adulterated Saffron Prepared by Adding Styles Colored with Some Natural Colorants. <i>Chromatographia</i> , 2007 , 66, 325-332	2.1	32
29	Prediction of thermal conductivities of oxygen, nitrogen and carbon dioxide at the moderate density regime via semi-empirical assessment. <i>Korean Journal of Chemical Engineering</i> , 2007 , 24, 1-10	2.8	7
28	Transport Coefficients of Natural Gases. <i>Journal of Chemical Engineering of Japan</i> , 2007 , 40, 698-710	0.8	12
27	Flow injection chemiluminescence analysis of phenolic compounds using the NCS-luminol system. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 384, 1246-53	4.4	23
26	Amperometric detection of insulin at renewable sol-gel derived carbon ceramic electrode modified with nickel powder and potassium octacyanomolybdate(IV). <i>Biosensors and Bioelectronics</i> , 2006 , 22, 220-6	11.8	32
25	Molar volume for mixtures of methane with krypton, argon, ethane and carbon monoxide using the ISM equation of state. <i>Journal of Molecular Liquids</i> , 2006 , 123, 134-138	6	2
24	Common Intersection Points of Bulk Modulus for Liquefied Natural Gas (LNG) Mixtures. <i>Journal of the Chinese Chemical Society</i> , 2005 , 52, 209-213	1.5	2

23	Characterization of graphite electrodes modified with laccases from <i>Trametes hirsuta</i> and <i>Cerrena unicolor</i> and their use for flow injection amperometric determination of some phenolic compounds. <i>International Journal of Environmental Analytical Chemistry</i> , 2005 , 85, 753-770	1.8	14
22	PREDICTION OF THE TRANSPORT PROPERTIES OF SF6 WITH O2, CO2, CF4, N2 AND CH4 MIXTURES AT LOW DENSITY BY THE INVERSION METHOD (PART II). <i>Journal of Theoretical and Computational Chemistry</i> , 2004 , 03, 69-90	1.8	9
21	Prussian blue modified glassy carbon electrodes-study on operational stability and its application as a sucrose biosensor. <i>Talanta</i> , 2004 , 64, 3-12	6.2	75
20	Sequential flow injection analysis of ammonium and nitrate using gas phase molecular absorption spectrometry. <i>Talanta</i> , 2004 , 64, 688-94	6.2	17
19	Characterization of graphite electrodes modified with laccase from <i>Trametes versicolor</i> and their use for bioelectrochemical monitoring of phenolic compounds in flow injection analysis. <i>Analytica Chimica Acta</i> , 2003 , 487, 3-14	6.6	119
18	Flow Injection Analysis of Sulfide by Gas Phase Molecular Absorption UV/Vis Spectrometry. <i>Analytical Letters</i> , 2003 , 36, 479-492	2.2	10
17	CALCULATION OF THE DIFFUSION COEFFICIENTS FOR MIXTURES OF NO WITH He, Ne, Ar AND Kr AT LOW DENSITY USING SEMI-EMPIRICAL INVERSION METHOD. <i>Journal of Theoretical and Computational Chemistry</i> , 2003 , 02, 371-383	1.8	7
16	Calculation of the transport properties of CO ₂ noble gases mixtures at low density by the semi-empirical inversion method. <i>Fluid Phase Equilibria</i> , 2002 , 203, 205-225	2.5	15
15	Flow injection analysis of nitrite by gas phase molecular absorption UV spectrophotometry. <i>Talanta</i> , 2002 , 56, 137-44	6.2	10
14	Flow-injection analysis of nitrate by reduction to nitrite and gas-phase molecular absorption spectrometry. <i>Fresenius Journal of Analytical Chemistry</i> , 2001 , 371, 1113-8		10
13	Direct Calculation of the Intermolecular Interaction Potential from the Extended Principle of Corresponding States for N ₂ /He. <i>Physica Scripta</i> , 2000 , 61, 97-101	2.6	5
12	Kinetic spectrophotometric determination of sulfide, using in-cuvette mixing and titration techniques with computerized data acquisition. <i>Fresenius Journal of Analytical Chemistry</i> , 1999 , 365, 654-657		2
11	Evaluation of Formation Constants, Molar Absorptivities of Metal Complexes, and Protonation Constants of Acids by Nonlinear Curve Fitting Using Microsoft Excel Solver and User-Defined Function. <i>Microchemical Journal</i> , 1999 , 62, 229-236	4.8	52
10	Direct Determination of the Interaction Potentials for SF ₆ -Ar, SF ₆ -Kr and SF ₆ -Xe from the Extended Law of Corresponding States. <i>Journal of the Physical Society of Japan</i> , 1998 , 67, 3086-3089	1.5	19
9	Flow injection analysis of sulphite by gas-phase molecular absorption UV/VIS spectrophotometry. <i>Talanta</i> , 1997 , 44, 1009-16	6.2	28
8	Rapid kinetic determination of silver (I), using in-cuvette mixing and computerized data acquisition. <i>Fresenius Journal of Analytical Chemistry</i> , 1997 , 357, 870-873		4
7	A Modified Z-Type Flow-through Cell for Optical, Electrochemical, and Optoelectrochemical Flow Injection Analysis Measurements. <i>Microchemical Journal</i> , 1997 , 57, 339-345	4.8	1
6	Simultaneous flow injection determination of iron(II) and iron(III) with opto-electrochemical detection. <i>Analytica Chimica Acta</i> , 1997 , 354, 43-50	6.6	16

5	Standard additions in flow injection analysis with atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1997 , 357, 151-156	6.6	5
4	Design of a New Phase Separator for Liquid-Liquid Extraction in Flowing Systems. <i>Microchemical Journal</i> , 1996 , 53, 147-151	4.8	6
3	Design of a Simple and Stand-alone RS-232c Interface. <i>Journal of Chemical Education</i> , 1995 , 72, A78	2.4	2
2	Spectrophotometric determination of vanadium (V), (IV), and (III) with pyrogallol in a flow injection system. <i>Microchemical Journal</i> , 1990 , 42, 319-322	4.8	3
1	Development of a sensitive high-performance liquid chromatographic method for detection of aflatoxins in pistachio nuts. <i>Journal of Chromatography A</i> , 1981 , 206, 101-8	4.5	17