

# Mohammad Rafiee

## List of Publications by Year in descending order

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68  
papers

2,684  
citations

257101

24  
h-index

182168

51  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2334  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tetramethylpiperidine <i>N</i> -Oxyl (TEMPO), Phthalimide <i>N</i> -Oxyl (PINO), and Related <i>N</i> -Oxyl Species: Electrochemical Properties and Their Use in Electrocatalytic Reactions. <i>Chemical Reviews</i> , 2018, 118, 4834-4885.	23.0	681
2	Electrocatalytic Alcohol Oxidation with TEMPO and Bicyclic Nitroxyl Derivatives: Driving Force Trumps Steric Effects. <i>Journal of the American Chemical Society</i> , 2015, 137, 14751-14757.	6.6	207
3	<i>N</i> -Hydroxyphthalimide-Mediated Electrochemical Iodination of Methylarenes and Comparison to Electron-Transfer-Initiated C-H Functionalization. <i>Journal of the American Chemical Society</i> , 2018, 140, 22-25.	6.6	155
4	Electrochemical Aminoxyl-Mediated Oxidation of Primary Alcohols in Lignin to Carboxylic Acids: Polymer Modification and Depolymerization. <i>Journal of the American Chemical Society</i> , 2019, 141, 15266-15276.	6.6	118
5	Electrochemical Oxidation of Alcohols and Aldehydes to Carboxylic Acids Catalyzed by 4-Acetamido-TEMPO: An Alternative to <i>N</i> - and <i>P</i> -Oxidations. <i>ACS Catalysis</i> , 2018, 8, 6738-6744.	5.5	114
6	A Facile Electrochemical Method for Synthesis of New Benzofuran Derivatives. <i>Journal of Organic Chemistry</i> , 2004, 69, 2637-2640.	1.7	105
7	Electrochemical Functional-Group-Tolerant Shono-Type Oxidation of Cyclic Carbamates Enabled by Aminoxyl Mediators. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6686-6690.	7.2	103
8	Diversity in electrochemical oxidation of dihydroxybenzoic acids in the presence of acetylacetone. A green method for synthesis of new benzofuran derivatives. <i>Green Chemistry</i> , 2005, 7, 638.	4.6	95
9	Electrochemical oxidation of catechols in the presence of acetylacetone. <i>Journal of Electroanalytical Chemistry</i> , 2004, 566, 31-37.	1.9	91
10	Mechanistic study of electrochemical oxidation of 4-tert-butylcatechol. <i>Electrochimica Acta</i> , 2004, 49, 2495-2502.	2.6	90
11	Mechanistic study of homogeneous reactions coupled with electrochemical oxidation of catechols. <i>Journal of the Iranian Chemical Society</i> , 2009, 6, 448-476.	1.2	68
12	Mechanistic Study of the Electrocatalytic Oxidation of Alcohols by TEMPO and NHPI. <i>ChemElectroChem</i> , 2014, 1, 455-462.	1.7	66
13	Kinetic study of the oxidation of some catecholamines by digital simulation of cyclic voltammograms. <i>International Journal of Chemical Kinetics</i> , 2005, 37, 17-24.	1.0	57
14	Eco-friendly electrocatalytic oxidation of alcohols on a novel electro generated TEMPO-functionalized MCM-41 modified electrode. <i>Green Chemistry</i> , 2015, 17, 991-1000.	4.6	53
15	Voltammetry of Electroinactive Species Using Quinone/Hydroquinone Redox: A Known Redox System Viewed in a New Perspective. <i>Electroanalysis</i> , 2007, 19, 1382-1386.	1.5	49
16	Electrochemical dimerization of 4-methylesculetin: Synthesis and kinetic study of a highly-oxygenated dimer. <i>Journal of Electroanalytical Chemistry</i> , 2011, 650, 226-232.	1.9	38
17	Electrochemical Functional-Group-Tolerant Shono-Type Oxidation of Cyclic Carbamates Enabled by Aminoxyl Mediators. <i>Angewandte Chemie</i> , 2018, 130, 6796-6800.	1.6	33
18	Electrochemical nitration of catechols: Kinetic study by digital simulation of cyclic voltammograms. <i>Journal of Electroanalytical Chemistry</i> , 2007, 602, 37-42.	1.9	32

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19	Electrochemical performance of a novel ionic liquid derived mesoporous carbon. <i>Chemical Communications</i> , 2012, 48, 2776.	2.2	31
20	Synthesis, properties and crystal structures of new binuclear lead(II) complexes based on phenyl, naphthyl-containing fluorine $\beta^2$ -diketones and substituted 2,2'-bipyridines. <i>Inorganica Chimica Acta</i> , 2010, 363, 4000-4007.	1.2	30
21	Constant Potential and Constant Current Electrolysis: An Introduction and Comparison of Different Techniques for Organic Electrosynthesis. <i>Journal of Organic Chemistry</i> , 2021, 86, 15866-15874.	1.7	30
22	Electrochemical study of catechol-boric acid complexes. <i>Electrochimica Acta</i> , 2008, 53, 2751-2756.	2.6	29
23	Investigation of the electro-oxidation and oxidation of catechol in the presence of sulfanilic acid. <i>Research on Chemical Intermediates</i> , 2004, 30, 299-309.	1.3	26
24	Electrochemical oxidation of catechols in the presence of cyanoacetone and methyl cyanoacetate. <i>Journal of Electroanalytical Chemistry</i> , 2009, 626, 36-41.	1.9	24
25	Kinetic study of the oxidation and nitration of catechols in the presence of nitrous acid ionization equilibria. <i>Journal of Hazardous Materials</i> , 2010, 174, 801-806.	6.5	24
26	Hydroquinone functionalized oriented MCM-41 mesochannels at the electrode surface. <i>Electrochimica Acta</i> , 2013, 94, 198-205.	2.6	24
27	Deriving the Turnover Frequency of Aminoxyl-Catalyzed Alcohol Oxidation by Chronoamperometry: An Introduction to Organic Electrocatalysis. <i>Journal of Chemical Education</i> , 2021, 98, 600-606.	1.1	24
28	Synthesis of arylidenepyruvic amide derivatives via Ugi-four component condensation. <i>Tetrahedron Letters</i> , 2012, 53, 3546-3549.	0.7	23
29	Electrochemical study of the dication of porphyrins with carboxylic acids: Shift of the absorption bands compared to that of the redox potentials. <i>Inorganic Chemistry Communication</i> , 2012, 22, 48-53.	1.8	19
30	Catalytic Oxidation of Thiourea at Alumina Modified Pt Electrode. <i>Sensors</i> , 2003, 3, 534-543.	2.1	17
31	A chloro bridged Cu(II)-Cu(II) complex of a new aminophenol ligand: Magnetostructural, radical decay kinetic studies, highly efficient and aerial alcohol oxidation. <i>Polyhedron</i> , 2012, 47, 94-103.	1.0	17
32	Electrochemical fabrication of electroactive ordered mesoporous electrode. <i>Analyst</i> , 2013, 138, 1740.	1.7	17
33	Ethylenediamine-modified oriented MCM-41 at the electrode surface, cobalt adsorption ability and electrochemical performance. <i>Dalton Transactions</i> , 2014, 43, 4901.	1.6	16
34	The Electron: The Simplest Chemical Reagent. <i>Synlett</i> , 2007, 2007, 0503-0504.	1.0	15
35	Kinetic study of electrochemically induced Michael reactions of benzoquinones with 2-acetylcyclohexanone and 2-acetylcyclopentanone. <i>Journal of Physical Organic Chemistry</i> , 2007, 20, 49-54.	0.9	14
36	The electrochemical study of catecholamine reactions in the presence of nitrite ion under mild acidic conditions. <i>Electrochimica Acta</i> , 2010, 55, 1809-1813.	2.6	13

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37	Synthesis and structural characterization of new dinuclear silver(I) complexes: Different coordination modes of substituted 1,2,4-triazine ligands. <i>Journal of Molecular Structure</i> , 2011, 1006, 324-329.	1.8	13
38	Graphitized Nitrogen-Doped Ordered Mesoporous Carbon Derived from Ionic Liquid; Catalytic Performance Toward ORR. <i>Electrocatalysis</i> , 2018, 9, 632-639.	1.5	13
39	CEC mechanism in electrochemical oxidation of nitrocatechol-boric acid complexes. <i>Electrochimica Acta</i> , 2011, 56, 9946-9952.	2.6	12
40	Voltammetric study of the oxidation of quercetin and catechin in the presence of cyanide ion. <i>Research on Chemical Intermediates</i> , 2011, 37, 1047-1055.	1.3	11
41	Assembly of three binuclear complexes of Ag <sup>I</sup> with 2,3-bis(2-pyridyl)pyrazine and benzoyltrifluoroacetate ligands. <i>Journal of Coordination Chemistry</i> , 2012, 65, 1882-1891.	0.8	10
42	Electrochemical Cyclization of Adrenaline, the Simplest Derivatization for its Selective Determination. <i>Electroanalysis</i> , 2017, 29, 2004-2007.	1.5	9
43	Why Is Voltammetric Current Scan Rate Dependent? Representation of a Mathematically Dense Concept Using Conceptual Thinking. <i>Journal of Chemical Education</i> , 2021, 98, 3957-3961.	1.1	9
44	One-Pot Synthesis of Highly Conjugated Benzofuran Derivatives Based on Electrochemical Oxidation of Benzenediols in the Presence of Dibenzoylmethane. <i>Chemical and Pharmaceutical Bulletin</i> , 2007, 55, 915-917.	0.6	8
45	Electrochemical Oxidation of 4-Methylcatechol in the Presence of $\beta$ -Diketones. <i>Bulletin of the Chemical Society of Japan</i> , 2008, 81, 1505-1511.	2.0	7
46	Investigation of the inclusion complex of $\beta$ -cyclodextrin with mycophenolate mofetil. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 90, 45-49.	2.0	6
47	Synthesis and characterization of three dinuclear complexes of Ag <sup>I</sup> with 2,3-bis(2-pyridyl)pyrazine and derivated of trifluoromethylidiketone ligands. <i>Journal of Molecular Structure</i> , 2012, 1022, 25-31.	1.8	5
48	Kinetic study of electrochemically induced CP bond formation of catechols with trialkylphosphites. <i>Electrochimica Acta</i> , 2012, 80, 56-59.	2.6	5
49	Kinetic Study of the Oxidation of Catechols in the Presence of N-Methylaniline. <i>Journal of Chemistry</i> , 2013, 2013, 1-5.	0.9	5
50	A biologically relevant iron(III) phenoxyl radical complex: A thermodynamic investigation on the structure-radical stability relationship. <i>Journal of Molecular Structure</i> , 2012, 1022, 109-116.	1.8	4
51	Electro-Organic Synthesis of New Esculetin Derivatives Based on 1,6-Conjugate Addition. <i>Current Organic Chemistry</i> , 2013, 17, 848-852.	0.9	4
52	Electrocatalytic Detection of Ethanol and Acetaldehyde by Aminoxyl Radicals: Utilizing Molecular Catalysis for Breath Analysis. <i>Analyst</i> , 2013, 138, 1-5.	1.7	4
53	Electrochemical Oxidation of Catechols in the Presence of Dimethyl Phosphite. <i>Progress in Reaction Kinetics and Mechanism</i> , 2012, 37, 138-146.	1.1	2
54	Cyclodextrin Based Spectral Changes. , 2013, , .		2

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55	Effect of $\beta$ -cyclodextrin on intra and intermolecular Michael addition of some catechol derivatives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 695-701.	2.0	2
56	Electrochemical oxidation of catecholamines in the presence of aromatic amines: interplay between inter- and intramolecular nucleophilic addition. <i>Research on Chemical Intermediates</i> , 2015, 41, 7151-7162.	1.3	2
57	Effect of inclusion complex on nitrous acid reaction with flavonoids. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 81, 661-665.	2.0	1
58	Electrochemical oxidation of 4- <i>tert</i> -butylcatechol in the presence of $\beta$ -cyclodextrin: Interplay between E and CE mechanisms. <i>International Journal of Chemical Kinetics</i> , 2012, 44, 507-513.	1.0	1
59	Voltammetric analysis of the possibility of derivatization of levodopa in the presence of aniline derivatives. <i>Journal of the Iranian Chemical Society</i> , 2013, 10, 1257-1262.	1.2	1
60	A Facile Electrochemical Method for Synthesis of New Benzofuran Derivatives.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
61	Kinetic Study of the Oxidation of Quercetin and Catechin in the Absence and Presence of Nitrite Ion. <i>Progress in Reaction Kinetics and Mechanism</i> , 2012, 37, 311-320.	1.1	0
62	(Invited) Electroanalytical Tools for Reaction Optimization and Mechanistic Investigation. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1728-1728.	0.0	0
63	Electrochemical Functionalization of Methylarenes Initiated By Hydrogen Atom Transfer and Comparison to Electron-Transfer-Initiated Functionalization. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
64	Electrochemical Oxidation/Modification of Lignin Mediated By Aminoxyl Radicals. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
65	Use of Imidoxyl Radical Mediators for Electrochemical Oxidation/Depolymerization of Lignin. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
66	Unrevealing the Mechanism of Aminoxyl Catalyzed Electrochemical Oxidation of Alcohols By Unpolished Glassy Carbon Electrode. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1400-1400.	0.0	0
67	Electrochemistry Under Microscope: Measuring the Thickness of Diffusion Layer in Thin Layer Electrochemical Cells with Optical Microscope. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1397-1397.	0.0	0
68	Aminoxyl Catalyzed Electrochemical Ethanol Detection: Development of a New Breathalyzer Using Molecular Catalysis. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 2183-2183.	0.0	0