Abdirisak Ahmed Isse

List of Publications by Year
in descending order

126 papers	7,529 citations	44069 48 h-index	56724 83 g-index
128 all docs	128 docs citations	128 times ranked	4956 citing authors

#	Article	IF	Citations
1	Absolute Potential of the Standard Hydrogen Electrode and the Problem of Interconversion of Potentials in Different Solvents. Journal of Physical Chemistry B, 2010, 114, 7894-7899.	2.6	406
2	Mechanism of Photoinduced Metal-Free Atom Transfer Radical Polymerization: Experimental and Computational Studies. Journal of the American Chemical Society, 2016, 138, 2411-2425.	13.7	384
3	Electrochemically mediated atom transfer radical polymerization (eATRP). Progress in Polymer Science, 2017, 69, 47-78.	24.7	295
4	Reversible-Deactivation Radical Polymerization in the Presence of Metallic Copper. A Critical Assessment of the SARA ATRP and SET-LRP Mechanisms. Macromolecules, 2013, 46, 8749-8772.	4.8	276
5	SARA ATRP or SET-LRP. End of controversy?. Polymer Chemistry, 2014, 5, 4409.	3.9	266
6	Controlled Aqueous Atom Transfer Radical Polymerization with Electrochemical Generation of the Active Catalyst. Angewandte Chemie - International Edition, 2011, 50, 11391-11394.	13.8	205
7	Aqueous RDRP in the Presence of Cu⁰: The Exceptional Activity of Cu^I Confirms the SARA ATRP Mechanism. Macromolecules, 2014, 47, 560-570.	4.8	187
8	Understanding the Fundamentals of Aqueous ATRP and Defining Conditions for Better Control. Macromolecules, 2015, 48, 6862-6875.	4.8	184
9	Estimation of Standard Reduction Potentials of Halogen Atoms and Alkyl Halides. Journal of Physical Chemistry B, 2011, 115, 678-684.	2.6	175
10	Solubility and electrochemical determination of CO2 in some dipolar aprotic solvents. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 289, 203-215.	0.1	170
11	Mechanism of Carbonâ^'Halogen Bond Reductive Cleavage in Activated Alkyl Halide Initiators Relevant to Living Radical Polymerization: Theoretical and Experimental Study. Journal of the American Chemical Society, 2011, 133, 6254-6264.	13.7	140
12	Dissociative electron transfer to organic chlorides: Electrocatalysis at metal cathodes. Physical Chemistry Chemical Physics, 2008, 10, 2409.	2.8	138
13	Dissociative Electron Transfer to Haloacetonitriles. An Example of the Dependency of In-Cage Ion-Radical Interactions upon the Leaving Group. Journal of the American Chemical Society, 2002, 124, 13533-13539.	13.7	131
14	Thermodynamic Properties of Copper Complexes Used as Catalysts in Atom Transfer Radical Polymerization. Macromolecules, 2010, 43, 9257-9267.	4.8	130
15	Atom Transfer Radical Polymerization of Methacrylic Acid: A Won Challenge. Journal of the American Chemical Society, 2016, 138, 7216-7219.	13.7	125
16	Electrochemical reduction of benzyl halides at a silver electrode. Electrochimica Acta, 2006, 51, 4956-4964.	5.2	117
17	Homogeneous Electron Transfer Catalysis of the Electrochemical Reduction of Carbon Dioxide. Do Aromatic Anion Radicals React in an Outer-Sphere Manner?. Journal of the American Chemical Society, 1996, 118, 7190-7196.	13.7	114
18	Silver nanoparticles deposited on glassy carbon. Electrocatalytic activity for reduction of benzyl chloride. Electrochemistry Communications, 2006, 8, 1707-1712.	4.7	105

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19	New insights into the mechanism of activation of atom transfer radical polymerization by Cu(i) complexes. Chemical Communications, 2011, 47, 3580.	4.1	103
20	ATRP in Water: Kinetic Analysis of Active and Super-Active Catalysts for Enhanced Polymerization Control. Macromolecules, 2017, 50, 2696-2705.	4.8	100
21	Relevance of electron transfer mechanism in electrocatalysis: the reduction of organic halides at silver electrodes. Chemical Communications, 2006, , 344-346.	4.1	99
22	Harnessing the Interaction between Surfactant and Hydrophilic Catalyst To Control eATRP in Miniemulsion. Macromolecules, 2017, 50, 3726-3732.	4.8	96
23	Estimation of standard reduction potentials of alkyl radicals involved in atom transfer radical polymerization. Electrochimica Acta, 2010, 55, 8312-8318.	5.2	92
24	Reversible-Deactivation Radical Polymerization in the Presence of Metallic Copper. Comproportionationâ€"Disproportionation Equilibria and Kinetics. Macromolecules, 2013, 46, 3793-3802.	4.8	92
25	Electrochemical hydrodehalogenation of polychloromethanes at silver and carbon electrodes. Applied Catalysis B: Environmental, 2009, 88, 479-489.	20.2	91
26	Electrocatalytic properties of transition metals toward reductive dechlorination of polychloroethanes. Electrochimica Acta, 2012, 70, 50-61.	5.2	88
27	Miniemulsion ARGET ATRP via Interfacial and Ion-Pair Catalysis: From ppm to ppb of Residual Copper. Macromolecules, 2017, 50, 8417-8425.	4.8	83
28	Advanced oxidation processes coupled with electrocoagulation for the exhaustive abatement of Cr-EDTA. Water Research, 2011, 45, 2122-2130.	11.3	82
29	Electrocatalysis and electron transfer mechanisms in the reduction of organic halides at Ag. Journal of Applied Electrochemistry, 2009, 39, 2217-2225.	2.9	80
30	New Insights into Electrocatalysis and Dissociative Electron Transfer Mechanisms: The Case of Aromatic Bromides. Journal of Physical Chemistry C, 2009, 113, 14983-14992.	3.1	80
31	RDRP in the presence of Cu0: The fate of Cu(I) proves the inconsistency of SET-LRP mechanism. Polymer, 2015, 72, 238-245.	3.8	79
32	The solvent effect in the electrocatalytic reduction of organic bromides on silver. Journal of Electroanalytical Chemistry, 2006, 593, 47-56.	3.8	77
33	Electrochemical approaches to the determination of rate constants for the activation step in atom transfer radical polymerization. Electrochimica Acta, 2016, 222, 393-401.	5.2	76
34	Electrocatalytic synthesis of 6-aminonicotinic acid at silver cathodes under mild conditions. Electrochemistry Communications, 2004, 6, 627-631.	4.7	71
35	Atom Transfer Radical Polymerization with Different Halides (F, Cl, Br, and I): Is the Process â€œLivingâ€• in the Presence of Fluorinated Initiators?. Macromolecules, 2017, 50, 192-202.	4.8	71
36	Nickel(I)(salen)-electrocatalyzed reduction of benzyl chlorides in the presence of carbon dioxide. Journal of Electroanalytical Chemistry, 2001, 507, 124-134.	3.8	69

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37	Electrocarboxylation of benzyl chlorides at silver cathode at the preparative scale level. Electrochimica Acta, 2008, 53, 2514-2528.	5.2	69
38	On the mechanism of activation of copper-catalyzed atom transfer radical polymerization. Electrochimica Acta, 2013, 110, 655-662.	5.2	69
39	Voltammetric investigation of the dissociative electron transfer to polychloromethanes at catalytic and non-catalytic electrodes. Electrochimica Acta, 2009, 54, 3235-3243.	5.2	66
40	Electrocatalytic dechlorination of volatile organic compounds at a copper cathode. Part I: Polychloromethanes. Applied Catalysis B: Environmental, 2012, 126, 347-354.	20.2	61
41	Electrocatalytic reduction of arylethyl chlorides at silver cathodes in the presence of carbon dioxide: Synthesis of 2-arylpropanoic acids. Journal of Electroanalytical Chemistry, 2005, 581, 38-45.	3.8	59
42	Dinuclear gold(i) complexes with propylene bridged N-heterocyclic dicarbene ligands: synthesis, structures, and trends in reactivities and properties. Dalton Transactions, 2013, 42, 10952.	3.3	57
43	Homogeneous Reduction of Haloacetonitriles by Electrogenerated Aromatic Radical Anions:â€‰ Determination of the Reduction Potential of â€¢CH2CN. Journal of Physical Chemistry A, 2004, 108, 4180-4186.	2.5	54
44	Electrochemical reduction and carboxylation of halobenzophenones. Journal of Electroanalytical Chemistry, 2002, 526, 41-52.	3.8	53
45	Electrocatalytic dechlorination of volatile organic compounds at copper cathode. Part II: Polychloroethanes. Applied Catalysis B: Environmental, 2012, 126, 355-362.	20.2	53
46	Electrochemically mediated atom transfer radical polymerization of n-butyl acrylate on non-platinum cathodes. Polymer Chemistry, 2016, 7, 5357-5365.	3.9	53
47	Sustainable Electrochemicallyâ€Mediated Atom Transfer Radical Polymerization with Inexpensive Nonâ€Platinum Electrodes. Macromolecular Rapid Communications, 2016, 37, 1318-1322.	3.9	50
48	Electrochemically mediated ATRP in ionic liquids: controlled polymerization of methyl acrylate in [BMIm][OTf]. Polymer Chemistry, 2018, 9, 646-655.	3.9	48
49	Toward Electrochemically Mediated Reversible Additionâ€“Fragmentation Chain-Transfer (eRAFT) Polymerization: Can Propagating Radicals Be Efficiently Electrogenerated from RAFT Agents?. Macromolecules, 2019, 52, 1479-1488.	4.8	48
50	Electrochemical Synthesis of Cyanoacetic Acid from Chloroacetonitrile and Carbon Dioxide. Journal of the Electrochemical Society, 2002, 149, D113.	2.9	47
51	One- versus two-electron reaction pathways in the electrocatalytic reduction of benzyl bromide at silver cathodes. Tetrahedron Letters, 2006, 47, 7735-7739.	1.4	46
52	Electrocatalytic carboxylation of chloroacetonitrile at a silver cathode for the synthesis of cyanoacetic acid. Electrochimica Acta, 2008, 54, 634-642.	5.2	46
53	Probing the correlation between Pt-support interaction and oxygen reduction reaction activity in mesoporous carbon materials modified with Pt-N active sites. Electrochimica Acta, 2018, 277, 287-300.	5.2	45
54	Is glassy carbon a really inert electrode material for the reduction of carbonâ€“halogen bonds?. Electrochemistry Communications, 2009, 11, 1932-1935.	4.7	44

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55	Electrocarboxylation of aromatic ketones: Influence of operative parameters on the competition between ketyl and ring carboxylation. Journal of Electroanalytical Chemistry, 2007, 609, 8-16.	3.8	43
56	Electronic properties of chelating dicarbene palladium complexes: A combined electrochemical, NMR and XPS investigation. Journal of Organometallic Chemistry, 2010, 695, 2359-2365.	1.8	43
57	Electrochemical characterization of common catalysts and initiators for atom transfer radical polymerization in [BMIm][OTf]. Electrochemistry Communications, 2017, 77, 116-119.	4.7	43
58	New protocol to determine the equilibrium constant of atom transfer radical polymerization. Electrochimica Acta, 2018, 260, 648-655.	5.2	43
59	Impact of Organometallic Intermediates on Copper-Catalyzed Atom Transfer Radical Polymerization. Macromolecules, 2019, 52, 4079-4090.	4.8	42
60	Tuning the reactivity and efficiency of copper catalysts for atom transfer radical polymerization by synthetic modification of tris(2-methylpyridyl)amine. Polymer, 2017, 128, 169-176.	3.8	41
61	Electrochemical triggering and control of atom transfer radical polymerization. Current Opinion in Electrochemistry, 2018, 8, 1-7.	4.8	41
62	Electrochemical reduction of carbon dioxide catalyzed by [CoI(salophen)Li]. Journal of Molecular Catalysis, 1991, 70, 197-208.	1.2	39
63	H2O2 production at gas-diffusion cathodes made from agarose-derived carbons with different textural properties for acebutolol degradation in chloride media. Journal of Hazardous Materials, 2022, 423, 127005.	12.4	38
64	One-pot synthesis of benzoic acid by electrocatalytic reduction of bromobenzene in the presence of CO2. Electrochemistry Communications, 2011, 13, 810-813.	4.7	37
65	Platinum-free electrocatalysts for oxygen reduction reaction: Fe-Nx modified mesoporous carbon prepared from biosources. Journal of Power Sources, 2018, 402, 434-446.	7.8	36
66	Homogeneous electron transfer catalysis in the electrochemical carboxylation of arylethyl chlorides. Journal of Electroanalytical Chemistry, 2003, 541, 93-101.	3.8	34
67	â€œInherently Chiralâ€•Ionicâ€Liquid Media: Effective Chiral Electroanalysis on Achiral Electrodes. Angewandte Chemie - International Edition, 2017, 56, 2079-2082.	13.8	33
68	Electrochemically mediated atom transfer radical polymerization of acrylonitrile and poly(acrylonitrile-b-butyl acrylate) copolymer as a precursor for N-doped mesoporous carbons. Electrochimica Acta, 2018, 285, 344-354.	5.2	31
69	Highly selective electrochemical hydrogenation of acetylene to ethylene at Ag and Cu cathodes. Electrochemistry Communications, 2013, 34, 90-93.	4.7	30
70	Cu(<scp>i</scp>) and Ag(<scp>i</scp>) complex formation with the hydrophilic phosphine 1,3,5-triaza-7-phosphadamantane in different ionic media. How to estimate the effect of a complexing medium. Dalton Transactions, 2017, 46, 1455-1466.	3.3	29
71	Mesoporous Carbon with Different Density of Thiophenicâ€Like Functional Groups and Their Effect on Oxygen Reduction. ChemSusChem, 2019, 12, 4229-4239.	6.8	29
72	The electrochemical reduction mechanism of [N,Nâ€²-1,2-phenylenebis(salicylideneiminato)]cobalt(II). Journal of the Chemical Society Dalton Transactions, 1993, , 2091-2096.	1.1	28

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73	Efficient and Green Route to Î³â€Lactams by Copperâ€Catalysed Reversed Atom Transfer Radical Cyclisation of Î±â€Polychloroâ€Nâ€allylamides, using a Low Load of Metal (0.5â€…mol%). Advanced Synthesis and Catalysis, 2013, 355, 1649-1660.	4.3	27
74	The solvent effect on the electrocatalytic cleavage of carbon-halogen bonds on Ag and Au. Electrochimica Acta, 2015, 158, 427-436.	5.2	27
75	A study of the electrochemical reduction mechanism of Ni(salophen) in DMF. Electrochimica Acta, 1992, 37, 113-118.	5.2	26
76	Electrocatalytic Activation of Aromatic Carbon-Bromine Bonds toward Carboxylation at Silver and Copper Cathodes. Journal of the Electrochemical Society, 2013, 160, G3073-G3079.	2.9	26
77	Tannic Acidâ€Inspired Starâ€Like Macromolecules via Temporally Controlled Multiâ€Step Potential Electrolysis. Macromolecular Chemistry and Physics, 2019, 220, 1900073.	2.2	26
78	Insights into the Halogen Oxidative Addition Reaction to Dinuclear Gold(I) Di(NHC) Complexes. Chemistry - A European Journal, 2016, 22, 10211-10224.	3.3	25
79	Towards scale-up of electrochemically-mediated atom transfer radical polymerization: Use of a stainless-steel reactor as both cathode and reaction vessel. Electrochimica Acta, 2019, 304, 505-512.	5.2	25
80	Biocompatible polymers via aqueous electrochemically mediated atom transfer radical polymerization. Journal of Polymer Science, 2020, 58, 114-123.	3.8	25
81	Electrocatalytic dechlorination of polychloroethylenes at silver cathode. Journal of Applied Electrochemistry, 2013, 43, 227-235.	2.9	24
82	PEOâ€bâ€PS Block Copolymer Templated Mesoporous Carbons: A Comparative Study of Nitrogen and Sulfur Doping in the Oxygen Reduction Reaction to Hydrogen Peroxide. Chemistry - A European Journal, 2021, 27, 1002-1014.	3.3	24
83	Nitrogen and Sulfur Doped Mesoporous Carbons, Prepared from Templating Silica, as Interesting Material for Supercapacitors. ChemistrySelect, 2017, 2, 7082-7090.	1.5	23
84	Facile synthesis of Pd3Y alloy nanoparticles for electrocatalysis of the oxygen reduction reaction. Electrochimica Acta, 2019, 320, 134563.	5.2	23
85	Atom Transfer Radical Polymerization of Acrylic and Methacrylic Acids: Preparation of Acidic Polymers with Various Architectures. ACS Macro Letters, 2020, 9, 693-699.	4.8	23
86	The influence of aluminium cations on electrocarboxylation processes in undivided cells with Al sacrificial anodes. Journal of Electroanalytical Chemistry, 2005, 585, 220-229.	3.8	22
87	Copper Coordination Chemistry of Sulfur Pendant Cyclen Derivatives: An Attempt to Hinder the Reductive-Induced Demetalation in ^{64/67}Cu Radiopharmaceuticals. Inorganic Chemistry, 2021, 60, 11530-11547.	4.0	22
88	Electrochemical Activation of Carbonâ€“Halogen Bonds: Electrocatalysis at Palladiumâ€“Copper Nanoparticles. ChemElectroChem, 2014, 1, 1370-1381.	3.4	20
89	Reductive cleavage of carbonâ€“chlorine bonds at catalytic and non-catalytic electrodes in 1-butyl-3-methylimidazolium tetrafluoroborate. Physical Chemistry Chemical Physics, 2015, 17, 31228-31236.	2.8	20
90	New naphthoquinone derivatives against glioma cells. European Journal of Medicinal Chemistry, 2015, 96, 458-466.	5.5	20

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91	Electrochemical Approach to Copperâ€Catalyzed Reversed Atom Transfer Radical Cyclization. Advanced Synthesis and Catalysis, 2015, 357, 782-792.	4.3	19
92	An â€œinherently chiralâ€•1,1â€²-bibenzimidazolium additive for enantioselective voltammetry in ionic liquid media. Electrochemistry Communications, 2018, 89, 57-61.	4.7	19
93	Electrochemically Mediated Aqueous Atom Transfer Radical Polymerization of N,Nâ€Dimethylacrylamide. ChemElectroChem, 2020, 7, 1378-1388.	3.4	19
94	Estimation of the standard reduction potentials of some 1-arylethyl radicals in acetonitrile. Electrochemistry Communications, 2002, 4, 767-772.	4.7	18
95	The scale-up of electrochemically mediated atom transfer radical polymerization without deoxygenation. Chemical Engineering Journal, 2022, 445, 136690.	12.7	17
96	Mechanism of the Electrochemical Carboxylation of Aromatic Ketones in Dimethylformamide. Collection of Czechoslovak Chemical Communications, 2003, 68, 1379-1394.	1.0	16
97	Relationship between supporting electrolyte bulkiness and dissociative electron transfer at catalytic and non-catalytic electrodes. Electrochimica Acta, 2013, 89, 52-62.	5.2	16
98	Arylsulfonyl Groups: The Best Cyclization Auxiliaries for the Preparation of ATRC Î³â€Łactams can be Acidolytically Removed. European Journal of Organic Chemistry, 2014, 2014, 6734-6745.	2.4	15
99	Electrochemically Mediated Atom Transfer Radical Polymerization of Methyl Methacrylate: The Importance of Catalytic Halogen Exchange. ChemElectroChem, 2019, 6, 4257-4265.	3.4	14
100	Electrocatalytic reduction of bromothiophenes on gold and silver electrodes: An example of synergy in electrocatalysis. Electrochemistry Communications, 2014, 38, 100-103.	4.7	13
101	Electrochemistry and Chirality in Bibenzimidazole Systems. Electrochimica Acta, 2015, 179, 250-262.	5.2	12
102	Enhancement of the Rate of Atom Transfer Radical Polymerization in Organic Solvents by Addition of Water: An Electrochemical Study.. ChemElectroChem, 2021, 8, 2450-2458.	3.4	12
103	Under pressure: electrochemically-mediated atom transfer radical polymerization of vinyl chloride. Polymer Chemistry, 2020, 11, 6745-6762.	3.9	11
104	Electrochemical study of the effect of Al3+ on the stability and performance of Cu-based ATRP catalysts in organic media. Electrochimica Acta, 2021, 388, 138589.	5.2	11
105	Working electrode geometry effect: A new concept for fabrication of patterned polymer brushes via SI-seATRP at ambient conditions. Polymer, 2022, 255, 125098.	3.8	11
106	â€œEgg of Columbusâ€• Single-step complete removal of chloride impurities from ionic liquids by AgCl deposition on silver electrode. Electrochemistry Communications, 2015, 51, 46-49.	4.7	10
107	Electrochemical approaches for better understanding of atom transfer radical polymerization. Current Opinion in Electrochemistry, 2019, 15, 50-57.	4.8	10
108	Copper-catalyzed ARGET ATRP of styrene from ethyl Î±-haloisobutyrate in EtOAc/EtOH, using ascorbic acid/Na2CO3 as reducing system. European Polymer Journal, 2021, 157, 110675.	5.4	10

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109	Electrochemical, Pulsed-Field-Gradient Spin-Echo NMR Spectroscopic, and ESR Spectroscopic Study of the Diffusivity of Molecular Probes inside Gel-Type Cross-Linked Polymers. Chemistry - A European Journal, 2007, 13, 2392-2401.	3.3	9
110	Exhaustive depletion of recalcitrant chromium fractions in a real wastewater. Chemosphere, 2010, 78, 620-625.	8.2	9
111	Electrochemistry for Atom Transfer Radical Polymerization. Chemical Record, 2021, 21, 2203-2222.	5.8	9
112	When ring makes the difference: coordination properties of Cu‹sup›2+‹/sup›/Cu‹sup›+‹/sup› complexes with sulfur-pendant polyazamacrocycles for radiopharmaceutical applications. New Journal of Chemistry, 2022, 46, 10012-10025.	2.8	9
113	Cu‹sup›0‹/sup›â€Promoted Cyclisation of Unsaturated Î±â€Halogeno Amides To Give Î²â€•and Î³â€Lactams. European Journal of Organic Chemistry, 2016, 2016, 2479-2491.	2.4	8
114	Electrochemical reduction of organic bromides in 1-butyl-3-methylimidazolium tetrafluoroborate. Journal of Electroanalytical Chemistry, 2017, 804, 240-247.	3.8	8
115	Addressing the role of triphenylphosphine in copper catalyzed ATRP. Polymer Chemistry, 2018, 9, 5348-5358.	3.9	7
116	Copper-Catalysed â€œActivators Regenerated by Electron Transferâ€•â€œAtom Transfer Radical Polymerisationâ€•of Styrene from a Bifunctional Initiator in Ethyl Acetate/Ethanol, Using Ascorbic Acid/Sodium Carbonate as Reducing System. Macromolecular Research, 2020, 28, 751-761.	2.4	6
117	Dual electrochemical and chemical control in atom transfer radical polymerization with copper electrodes. Chemical Science, 2022, 13, 6008-6018.	7.4	6
118	Exploring Electrochemically Mediated ATRP of Styrene. Processes, 2021, 9, 1327.	2.8	5
119	Reprint of â€œElectrochemical reduction of organic bromides in 1-butyl-3-methylimidazolium tetrafluoroborateâ€• Journal of Electroanalytical Chemistry, 2018, 819, 562-569.	3.8	4
120	Catalytic Halogen Exchange in Supplementary Activator and Reducing Agent Atom Transfer Radical Polymerization for the Synthesis of Block Copolymers. Macromolecular Rapid Communications, 2021, 42, e2000532.	3.9	3
121	â€œInherently Chiralâ€•Ionicâ€Liquid Media: Effective Chiral Electroanalysis on Achiral Electrodes. Angewandte Chemie, 2017, 129, 2111-2114.	2.0	2
122	Biocompatible polymers via aqueous electrochemically mediated atom transfer radical polymerization. Journal of Polymer Science, 2020, 58, 114-123.	3.8	2
123	Electrochemical Procedures To Determine Thermodynamic and Kinetic Parameters of Atom Transfer Radical Polymerization. ACS Symposium Series, 2018, , 161-189.	0.5	1
124	on Gold and Silver Electrodes: enhancement from S specific adsorption and modulation from substituent effects. Electrochimica Acta, 2021, , 139563.	5.2	1
125	RÃ¼cktitelbild: â€œInherently Chiralâ€•Ionicâ€Liquid Media: Effective Chiral Electroanalysis on Achiral Electrodes (Angew. Chem. 8/2017). Angewandte Chemie, 2017, 129, 2254-2254.	2.0	0
126	Mesoporosity and nitrogen doping: The leading effect in oxygen reduction reaction activity and selectivity at nitrogenâ€•doped carbons prepared by using polyethylene oxideâ€•blockâ€•polystyrene as a sacrificial template. Electrochemical Science Advances, 2023, 3, .	2.8	0