

Vitaly Ordonsky

List of Publications by Year in descending order

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120
papers

4,866
citations

76326

40
h-index

106344

65
g-index

121
all docs

121
docs citations

121
times ranked

4815
citing authors

#	ARTICLE	IF	CITATIONS
1	Glucose dehydration to 5-hydroxymethylfurfural over phosphate catalysts. <i>Journal of Catalysis</i> , 2013, 300, 37-46.	6.2	198
2	Carbon-based catalysts for Fischer–Tropsch synthesis. <i>Chemical Society Reviews</i> , 2021, 50, 2337-2366.	38.1	188
3	The effect of solvent addition on fructose dehydration to 5-hydroxymethylfurfural in biphasic system over zeolites. <i>Journal of Catalysis</i> , 2012, 287, 68-75.	6.2	187
4	Initial stages of propane activation over Zn/MFI catalyst studied by in situ NMR and IR spectroscopic techniques. <i>Journal of Catalysis</i> , 2006, 238, 122-133.	6.2	168
5	Design of a Metal–Promoted Oxide Catalyst for the Selective Synthesis of Butadiene from Ethanol. <i>ChemSusChem</i> , 2014, 7, 2527-2536.	6.8	152
6	Pore size effects in high-temperature Fischer–Tropsch synthesis over supported iron catalysts. <i>Journal of Catalysis</i> , 2015, 328, 139-150.	6.2	151
7	Fructose Dehydration to 5-Hydroxymethylfurfural over Solid Acid Catalysts in a Biphasic System. <i>ChemSusChem</i> , 2012, 5, 1812-1819.	6.8	134
8	Stoichiometric methane conversion to ethane using photochemical looping at ambient temperature. <i>Nature Energy</i> , 2020, 5, 511-519.	39.5	130
9	Study of acetaldehyde condensation chemistry over magnesia and zirconia supported on silica. <i>Journal of Molecular Catalysis A</i> , 2010, 333, 85-93.	4.8	128
10	Nature, strength and accessibility of acid sites in micro/mesoporous catalysts obtained by recrystallization of zeolite BEA. <i>Microporous and Mesoporous Materials</i> , 2007, 105, 101-110.	4.4	108
11	Biphasic single-reactor process for dehydration of xylose and hydrogenation of produced furfural. <i>Applied Catalysis A: General</i> , 2013, 451, 6-13.	4.3	102
12	Methane Activation over Zn-Modified MFI Zeolite: NMR Evidence for Zn ²⁺ Methyl Surface Species Formation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20065-20069.	3.1	101
13	Recent Breakthroughs in the Conversion of Ethanol to Butadiene. <i>Catalysts</i> , 2016, 6, 203.	3.5	100
14	Selective photocatalytic conversion of methane into carbon monoxide over zinc-heteropolyacid-titania nanocomposites. <i>Nature Communications</i> , 2019, 10, 700.	12.8	98
15	Support effects in high temperature Fischer-Tropsch synthesis on iron catalysts. <i>Applied Catalysis A: General</i> , 2014, 488, 66-77.	4.3	92
16	Sodium-promoted iron catalysts prepared on different supports for high temperature Fischer–Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2015, 502, 204-214.	4.3	78
17	Major routes in the photocatalytic methane conversion into chemicals and fuels under mild conditions. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119913.	20.2	78
18	The role of carbon atoms of supported iron carbides in Fischer–Tropsch synthesis. <i>Catalysis Science and Technology</i> , 2015, 5, 1433-1437.	4.1	73

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19	The role of carbon pre-coating for the synthesis of highly efficient cobalt catalysts for Fischer-Tropsch synthesis. <i>Journal of Catalysis</i> , 2016, 337, 260-271.	6.2	72
20	Direct dimethyl ether synthesis from syngas on copper-zeolite hybrid catalysts with a wide range of zeolite particle sizes. <i>Journal of Catalysis</i> , 2016, 338, 227-238.	6.2	71
21	Nanoreactors: An Efficient Tool To Control the Chain-Length Distribution in Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , 2016, 6, 1785-1792.	11.2	70
22	Effects of the promotion with bismuth and lead on direct synthesis of light olefins from syngas over carbon nanotube supported iron catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 234, 153-166.	20.2	68
23	Dual Metal-Acid Pd-Br Catalyst for Selective Hydrodeoxygenation of 5-Hydroxymethylfurfural (HMF) to 2,5-Dimethylfuran at Ambient Temperature. <i>ACS Catalysis</i> , 2021, 11, 19-30.	11.2	65
24	Direct Evidence of Surface Oxidation of Cobalt Nanoparticles in Alumina-Supported Catalysts for Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , 2014, 4, 4510-4515.	11.2	62
25	The role of external acid sites of ZSM-5 in deactivation of hybrid CuZnAl/ZSM-5 catalyst for direct dimethyl ether synthesis from syngas. <i>Applied Catalysis A: General</i> , 2014, 486, 266-275.	4.3	62
26	Structure-Sensitive and Insensitive Reactions in Alcohol Amination over Nonsupported Ru Nanoparticles. <i>ACS Catalysis</i> , 2018, 8, 11226-11234.	11.2	60
27	Surface species formed during propane aromatization over Zn/MFI catalyst as determined by in situ spectroscopic techniques. <i>Journal of Molecular Catalysis A</i> , 2009, 305, 47-53.	4.8	58
28	Cobalt and iron species in alumina supported bimetallic catalysts for Fischer-Tropsch reaction. <i>Applied Catalysis A: General</i> , 2014, 481, 116-126.	4.3	57
29	Cumene disproportionation over micro/mesoporous catalysts obtained by recrystallization of mordenite. <i>Journal of Catalysis</i> , 2012, 295, 207-216.	6.2	55
30	Synthesis of isoprene from formaldehyde and isobutene over phosphate catalysts. <i>Applied Catalysis A: General</i> , 2012, 441-442, 21-29.	4.3	55
31	Glucose Dehydration to 5-Hydroxymethylfurfural in a Biphasic System over Solid Acid Foams. <i>ChemSusChem</i> , 2013, 6, 1697-1707.	6.8	54
32	In Situ Generation of Brønsted Acidity in the Pd-I Bifunctional Catalysts for Selective Reductive Etherification of Carbonyl Compounds under Mild Conditions. <i>ACS Catalysis</i> , 2019, 9, 2940-2948.	11.2	53
33	Lignin Compounds to Monoaromatics: Selective Cleavage of C=O Bonds over a Brominated Ruthenium Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12513-12523.	13.8	53
34	Surface molecular imprinting over supported metal catalysts for size-dependent selective hydrogenation reactions. <i>Nature Catalysis</i> , 2021, 4, 595-606.	34.4	52
35	Impact and Detailed Action of Sulfur in Syngas on Methane Synthesis on Ni ₃ -Al ₂ O ₃ Catalyst. <i>ACS Catalysis</i> , 2014, 4, 2785-2791.	11.2	49
36	Direct synthesis of hydrogen peroxide over Au-Pd catalyst in a wall-coated microchannel. <i>Journal of Catalysis</i> , 2014, 309, 325-332.	6.2	48

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37	The Role of Steric Effects and Acidity in the Direct Synthesis of <i>i</i> -Paraffins from Syngas on Cobalt Zeolite Catalysts. <i>ChemCatChem</i> , 2016, 8, 380-389.	3.7	47
38	Identification of efficient promoters and selectivity trends in high temperature Fischer-Tropsch synthesis over supported iron catalysts. <i>Applied Catalysis B: Environmental</i> , 2020, 273, 119028.	20.2	45
39	Selective Electrogenic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandialdehyde. <i>ChemSusChem</i> , 2017, 10, 4851-4854.	6.8	44
40	External surface phenomena in dealumination and desilication of large single crystals of ZSM-5 zeolite synthesized from a sustainable source. <i>Microporous and Mesoporous Materials</i> , 2019, 286, 57-64.	4.4	44
41	Solid micellar Ru single-atom catalysts for the water-free hydrogenation of CO ₂ to formic acid. <i>Applied Catalysis B: Environmental</i> , 2021, 290, 120036.	20.2	43
42	Foam supported sulfonated polystyrene as a new acidic material for catalytic reactions. <i>Chemical Engineering Journal</i> , 2012, 207-208, 218-225.	12.7	42
43	Soldering of Iron Catalysts for Direct Synthesis of Light Olefins from Syngas under Mild Reaction Conditions. <i>ACS Catalysis</i> , 2017, 7, 6445-6452.	11.2	42
44	Aqueous phase reforming in a microchannel reactor: the effect of mass transfer on hydrogen selectivity. <i>Catalysis Science and Technology</i> , 2013, 3, 2834.	4.1	41
45	Design of nanocomposites with cobalt encapsulated in the zeolite micropores for selective synthesis of isoparaffins in Fischer-Tropsch reaction. <i>Catalysis Science and Technology</i> , 2017, 7, 5019-5027.	4.1	40
46	Opportunities for intensification of Fischer-Tropsch synthesis through reduced formation of methane over cobalt catalysts in microreactors. <i>Catalysis Science and Technology</i> , 2015, 5, 1400-1411.	4.1	38
47	Elucidation of deactivation phenomena in cobalt catalyst for Fischer-Tropsch synthesis using SSITKA. <i>Journal of Catalysis</i> , 2016, 344, 669-679.	6.2	37
48	Catalyst Deactivation for Enhancement of Selectivity in Alcohols Amination to Primary Amines. <i>ACS Catalysis</i> , 2019, 9, 5986-5997.	11.2	36
49	Tuning Zeolite Properties for a Highly Efficient Synthesis of Propylene from Methanol. <i>Chemistry - A European Journal</i> , 2018, 24, 13136-13149.	3.3	35
50	Continuous hydrogen stripping during aqueous phase reforming of sorbitol in a washcoated microchannel reactor with a Pt-Ru bimetallic catalyst. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18069-18076.	7.1	34
51	Fischer-Tropsch synthesis catalysed by small TiO ₂ supported cobalt nanoparticles prepared by sodium borohydride reduction. <i>Applied Catalysis A: General</i> , 2016, 513, 39-46.	4.3	34
52	Core-Shell Metal Zeolite Composite Catalysts for In Situ Processing of Fischer-Tropsch Hydrocarbons to Gasoline Type Fuels. <i>ACS Catalysis</i> , 2020, 10, 2544-2555.	11.2	34
53	Isoprene synthesis from formaldehyde and isobutene over Keggin-type heteropolyacids supported on silica. <i>Catalysis Science and Technology</i> , 2016, 6, 6354-6364.	4.1	33
54	Catalysis by Coke Deposits: Synthesis of Isoprene over Solid Catalysts. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12961-12964.	13.8	32

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55	Effect of Sn additives on the CuZnAl-HZSM-5 hybrid catalysts for the direct DME synthesis from syngas. <i>Applied Catalysis A: General</i> , 2015, 502, 370-379.	4.3	31
56	How metallic is gold in the direct epoxidation of propene: an FTIR study. <i>Catalysis Science and Technology</i> , 2013, 3, 3042.	4.1	28
57	Selective Oxidation of Alcohols to Carbonyl Compounds over Small Size Colloidal Ru Nanoparticles. <i>ChemCatChem</i> , 2020, 12, 238-247.	3.7	28
58	Selective Deposition of Cobalt and Copper Oxides on BiVO ₄ Facets for Enhancement of CO ₂ Photocatalytic Reduction to Hydrocarbons. <i>ChemCatChem</i> , 2020, 12, 740-749.	3.7	28
59	Nickel-zeolite composite catalysts with metal nanoparticles selectively encapsulated in the zeolite micropores. <i>Journal of Materials Science</i> , 2019, 54, 5399-5411.	3.7	27
60	Direct aerobic oxidation of monoalcohol and diols to acetals using tandem Ru@MOF catalysts. <i>Nano Research</i> , 2021, 14, 479-485.	10.4	27
61	Design of iron catalysts supported on carbon-silica composites with enhanced catalytic performance in high-temperature Fischer-Tropsch synthesis. <i>Catalysis Science and Technology</i> , 2016, 6, 4953-4961.	4.1	26
62	Synergy of nanoconfinement and promotion in the design of efficient supported iron catalysts for direct olefin synthesis from syngas. <i>Journal of Catalysis</i> , 2019, 376, 1-16.	6.2	26
63	Direct Production of Iso-Paraffins from Syngas over Hierarchical Cobalt-ZSM-5 Nanocomposites Synthesized by using Carbon Nanotubes as Sacrificial Templates. <i>ChemCatChem</i> , 2018, 10, 2291-2299.	3.7	25
64	Hydrogen Production through Aqueous-Phase Reforming of Ethylene Glycol in a Washcoated Microchannel. <i>ChemSusChem</i> , 2013, 6, 1708-1716.	6.8	24
65	Carbon-Coated Ceramic Membrane Reactor for the Production of Hydrogen by Aqueous-Phase Reforming of Sorbitol. <i>ChemSusChem</i> , 2014, 7, 2007-2015.	6.8	24
66	Highly Efficient and Selective N-Alkylation of Amines with Alcohols Catalyzed by in Situ Rehydrated Titanium Hydroxide. <i>ACS Catalysis</i> , 2020, 10, 3404-3414.	11.2	24
67	Fischer-Tropsch synthesis on a ruthenium catalyst in two-phase systems: an excellent opportunity for the control of reaction rate and selectivity. <i>Catalysis Science and Technology</i> , 2014, 4, 2896-2899.	4.1	23
68	Direct Synthesis of Hydrogen Peroxide over Au-Pd Catalyst-The Effect of Co-Solvent Addition. <i>ChemCatChem</i> , 2015, 7, 1161-1176.	3.7	22
69	Effects of co-feeding with nitrogen-containing compounds on the performance of supported cobalt and iron catalysts in Fischer-Tropsch synthesis. <i>Catalysis Today</i> , 2016, 275, 84-93.	4.4	22
70	Influence of Impregnation and Ion Exchange Sequence on Metal Localization, Acidity and Catalytic Performance of Cobalt BEA Zeolite Catalysts in Fischer-Tropsch Synthesis. <i>ChemCatChem</i> , 2019, 11, 568-574.	3.7	20
71	A multifaceted role of a mobile bismuth promoter in alcohol amination over cobalt catalysts. <i>Green Chemistry</i> , 2020, 22, 4270-4278.	9.0	19
72	Carbon-supported Fe catalysts with well-defined active sites for highly selective alcohol production from Fischer-Tropsch synthesis. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121393.	20.2	19

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73	Selectivity shift from paraffins to α -olefins in low temperature Fischer–Tropsch synthesis in the presence of carboxylic acids. <i>Chemical Communications</i> , 2018, 54, 2345-2348.	4.1	18
74	Mechanistic Aspects of the Activation of Silica-Supported Iron Catalysts for Fischer–Tropsch Synthesis in Carbon Monoxide and Syngas. <i>ChemCatChem</i> , 2016, 8, 390-395.	3.7	17
75	The application of palladium and zeolite incorporated chip-based microreactors. <i>Applied Catalysis A: General</i> , 2016, 515, 72-82.	4.3	17
76	Size and promoter effects on iron nanoparticles confined in carbon nanotubes and their catalytic performance in light olefin synthesis from syngas. <i>Catalysis Today</i> , 2020, 357, 203-213.	4.4	17
77	Mobility and versatility of the liquid bismuth promoter in the working iron catalysts for light olefin synthesis from syngas. <i>Chemical Science</i> , 2020, 11, 6167-6182.	7.4	17
78	Zirconium Phosphate Coating on Aluminum Foams by Electrophoretic Deposition for Acidic Catalysis. <i>ChemCatChem</i> , 2012, 4, 129-133.	3.7	15
79	Alcohol amination over titania-supported ruthenium nanoparticles. <i>Catalysis Science and Technology</i> , 2020, 10, 4396-4404.	4.1	15
80	Multilevel rotating foam biphasic reactor for combination of processes in biomass transformation. <i>Chemical Engineering Journal</i> , 2013, 231, 12-17.	12.7	14
81	Self-Regeneration of Cobalt and Nickel Catalysts Promoted with Bismuth for Non-deactivating Performance in Carbon Monoxide Hydrogenation. <i>ACS Catalysis</i> , 2019, 9, 991-1000.	11.2	14
82	Catalyst Coating on Prefabricated Capillary Microchannels for the Direct Synthesis of Hydrogen Peroxide. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 2919-2929.	3.7	13
83	Ruthenium silica nanoreactors with varied metal–wall distance for efficient control of hydrocarbon distribution in Fischer–Tropsch synthesis. <i>Journal of Catalysis</i> , 2018, 365, 429-439.	6.2	13
84	Non-metallic Aerobic Oxidation of Alcohols over Anthraquinone Based Compounds. <i>Applied Catalysis A: General</i> , 2020, 590, 117277.	4.3	13
85	Preparation of ZSM-5 zeolite coatings within capillary microchannels. <i>Journal of Materials Chemistry</i> , 2012, 22, 15976.	6.7	12
86	Dehydroalkylation of Benzene with Ethane over Pt/H β -MFI in the Presence of Hydrogen Scavengers. <i>ChemCatChem</i> , 2012, 4, 681-686.	3.7	12
87	Ru(III) single site solid micellar catalyst for selective aqueous phase hydrogenation of carbonyl groups in biomass-derived compounds. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120730.	20.2	12
88	Selective Production of Methane from Aqueous Biocarbohydrate Streams over a Mixture of Platinum and Ruthenium Catalysts. <i>ChemSusChem</i> , 2014, 7, 627-630.	6.8	10
89	Lignin Compounds to Monoaromatics: Selective Cleavage of C–O Bonds over a Brominated Ruthenium Catalyst. <i>Angewandte Chemie</i> , 2021, 133, 12621-12631.	2.0	10
90	Syngas to Chemicals: The Incorporation of Aldehydes into Fischer–Tropsch Synthesis. <i>ChemCatChem</i> , 2017, 9, 1040-1046.	3.7	9

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91	Versatile Roles of Metal Species in Carbon Nanotube Templates for the Synthesis of Metal@Zeolite Nanocomposite Catalysts. <i>ACS Applied Nano Materials</i> , 2019, 2, 4507-4517.	5.0	9
92	Embryonic zeolites for highly efficient synthesis of dimethyl ether from syngas. <i>Microporous and Mesoporous Materials</i> , 2021, 322, 111138.	4.4	9
93	Bismuth mobile promoter and cobalt-bismuth nanoparticles in carbon nanotube supported Fischer-Tropsch catalysts with enhanced stability. <i>Journal of Catalysis</i> , 2021, 401, 102-114.	6.2	9
94	Effect of polymeric stabilizers on Fischer-Tropsch synthesis catalyzed by cobalt nanoparticles supported on TiO ₂ . <i>Journal of Molecular Catalysis A</i> , 2016, 417, 43-52.	4.8	8
95	Decomposition of Supported Pd Hydride Nanoparticles for the Synthesis of Highly Dispersed Metallic Catalyst. <i>Chemistry of Materials</i> , 2018, 30, 8116-8120.	6.7	7
96	Self-Encapsulation of Heteropolyacids in a 3D-Ordered Coke Framework for Heterogeneous Catalysis in Homogeneous Way. <i>Chemistry of Materials</i> , 2017, 29, 2676-2680.	6.7	6
97	Design of core-shell titania-heteropolyacid-metal nanocomposites for photocatalytic reduction of CO ₂ to CO at ambient temperature. <i>Nanoscale Advances</i> , 2019, 1, 4321-4330.	4.6	6
98	The Fischer-Tropsch reaction in the aqueous phase over rhodium catalysts: a promising route to selective synthesis and separation of oxygenates and hydrocarbons. <i>Chemical Communications</i> , 2020, 56, 277-280.	4.1	6
99	Nanocell type Ru@quinone core-shell catalyst for selective oxidation of alcohols to carbonyl compounds. <i>Applied Catalysis A: General</i> , 2020, 602, 117693.	4.3	6
100	Surface modification of metallic catalysts for the design of selective processes. <i>Catalysis Reviews - Science and Engineering</i> , 0, , 1-47.	12.9	6
101	“Fishing” of heteropolyacids into carbonaceous seine via coking. <i>Chemical Communications</i> , 2015, 51, 17120-17123.	4.1	5
102	Disassembly of Supported Co and Ni Nanoparticles by Carbon Deposition for the Synthesis of Highly Dispersed and Active Catalysts. <i>ACS Catalysis</i> , 2020, 10, 6231-6239.	11.2	5
103	Design of ruthenium-zeolite nanocomposites for enhanced hydrocarbon synthesis from syngas. <i>Journal of Materials Science</i> , 2021, 56, 18019-18030.	3.7	5
104	TEMPO-Ru-BEA Composite Material for the Selective Oxidation of Alcohols to Aldehydes. <i>ACS Catalysis</i> , 2022, 12, 8925-8935.	11.2	5
105	Specifics of the deactivation of acid and zinc-containing propane aromatization catalysts. <i>Petroleum Chemistry</i> , 2008, 48, 100-104.	1.4	4
106	Binuclear iron complexes with acyclic Schiff bases based on 4-tert-butyl-2,6-diformylphenol: synthesis, properties, and use in catalytic partial oxidation of isobutane. <i>Russian Chemical Bulletin</i> , 2013, 62, 1201-1209.	1.5	4
107	Mastering a biphasic single-reactor process for direct conversion of glycerol into liquid hydrocarbon fuels. <i>Green Chemistry</i> , 2014, 16, 2128-2131.	9.0	4
108	Assessment of metal sintering in the copper-zeolite hybrid catalyst for direct dimethyl ether synthesis using synchrotron-based X-ray absorption and diffraction. <i>Catalysis Today</i> , 2020, 343, 199-205.	4.4	4

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109	Number and intrinsic activity of cobalt surface sites in platinum promoted zeolite catalysts for carbon monoxide hydrogenation. <i>Catalysis Science and Technology</i> , 2020, 10, 2137-2144.	4.1	4
110	Design of Two-Dimensional Heteropolyacid-Covalent Organic Frameworks Composite Materials for Acid Catalysis. <i>ChemCatChem</i> , 2022, 14, .	3.7	4
111	Heterogenization of Complexes by Encapsulation in Solid Micelles for Aqueous-Phase Catalysis. <i>Chemistry of Materials</i> , 0, , .	6.7	3
112	Pre-concentration of organophosphorous compounds on porous silica materials. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 623-626.	1.5	2
113	Heterogeneously catalyzed reactive extraction for biomass valorization into chemicals and fuels. <i>Green Processing and Synthesis</i> , 2015, 4, .	3.4	2
114	Zeolite incorporation in chip-based microreactors. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 424-432.	4.4	2
115	Effect of a carrier's nature on the activation of supported iron catalysts. <i>Russian Journal of Physical Chemistry A</i> , 2015, 89, 2032-2035.	0.6	1
116	Light-switching chemistry for photocatalytic methane oxidation over quantum dots. <i>CheM</i> , 2021, 7, 1422-1424.	11.7	1
117	Frontispiece: Tuning Zeolite Properties for a Highly Efficient Synthesis of Propylene from Methanol. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
118	Alkyl coupling in tertiary amines as analog of Guerbet condensation reaction. <i>RSC Advances</i> , 2019, 9, 9845-9849.	3.6	0
119	Quinone Shuttling Impels Selective Electrocatalytic Alcohol Oxidation: A Hydrogen Bonding-Directed Electrosynthesis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
120	Quinone Shuttling Impels Selective Electrocatalytic Alcohol Oxidation: A Hydrogen Bonding-Directed Electrosynthesis. <i>Journal of Electroanalytical Chemistry</i> , 2021, 903, 115820.	3.8	0