

Jabor Rabeah

List of Publications by Citations

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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.

83
papers

2,793
citations

23
h-index

51
g-index

99
ext. papers

3,639
ext. citations

9.9
avg, IF

5.22
L-index

#	Paper	IF	Citations
83	Nanoscale Fe ₂ O ₃ -based catalysts for selective hydrogenation of nitroarenes to anilines. <i>Science</i> , 2013 , 342, 1073-6	33.3	704
82	Heterogenized cobalt oxide catalysts for nitroarene reduction by pyrolysis of molecularly defined complexes. <i>Nature Chemistry</i> , 2013 , 5, 537-43	17.6	513
81	Efficient VO _x /Ce _{1-x} Ti _x O ₂ Catalysts for Low-Temperature NH ₃ -SCR: Reaction Mechanism and Active Sites Assessed by in Situ/Operando Spectroscopy. <i>ACS Catalysis</i> , 2017 , 7, 1693-1705	13.1	118
80	Fast Electron Transfer and OH Formation: Key Features for High Activity in Visible-Light-Driven Ozonation with C ₃ N ₄ Catalysts. <i>ACS Catalysis</i> , 2017 , 7, 6198-6206	13.1	101
79	Palladium-Catalyzed Trifluoromethylation of (Hetero)Arenes with CF ₃ Br. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2782-6	16.4	95
78	Heterogeneous platinum-catalyzed C-H perfluoroalkylation of arenes and heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4320-4	16.4	66
77	Cobalt Single-Atom Catalysts with High Stability for Selective Dehydrogenation of Formic Acid. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15849-15854	16.4	65
76	Formation, Operation and Deactivation of Cr Catalysts in Ethylene Tetramerization Directly Assessed by Operando EPR and XAS. <i>ACS Catalysis</i> , 2013 , 3, 95-102	13.1	61
75	Monitoring Structure and Valence State of Chromium Sites during Catalyst Formation and Ethylene Oligomerization by in Situ EPR Spectroscopy. <i>Organometallics</i> , 2008 , 27, 3849-3856	3.8	60
74	Selective Alcohol Oxidation by a Copper TEMPO Catalyst: Mechanistic Insights by Simultaneously Coupled Operando EPR/UV-Vis/ATR-IR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11791-4	16.4	55
73	The role of ozone and influence of band structure in WO photocatalysis and ozone integrated process for pharmaceutical wastewater treatment. <i>Journal of Hazardous Materials</i> , 2018 , 360, 481-489	12.8	48
72	Gallic Acid-Promoted SET Process for Cyclobutanone Oximes Activation and (Carbonylative-)Alkylation of Olefins. <i>ACS Catalysis</i> , 2018 , 8, 10926-10930	13.1	44
71	Encapsulation of Ru nanoparticles: Modifying the reactivity toward CO and CO ₂ methanation on highly active Ru/TiO ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118846	21.8	43
70	Protonated Imine-Linked Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19797-19803	16.4	38
69	Visible-Light Photocatalytic Ozonation Using Graphitic CN Catalysts: A Hydroxyl Radical Manufacturer for Wastewater Treatment. <i>Accounts of Chemical Research</i> , 2020 , 53, 1024-1033	24.3	36
68	Improving Selectivity and Activity of CO ₂ Reduction Photocatalysts with Oxygen. <i>Chem</i> , 2019 , 5, 1818-1832	16.3	32
67	Origins of high catalyst loading in copper(i)-catalysed Ullmann-Goldberg C-N coupling reactions. <i>Chemical Science</i> , 2017 , 8, 7203-7210	9.4	32

66	Palladium-Catalyzed Trifluoromethylation of (Hetero)Arenes with CF ₃ Br. <i>Angewandte Chemie</i> , 2016 , 128, 2832-2836	3.6	31
65	Tracing Active Sites in Supported Ni Catalysts during Butene Oligomerization by Operando Spectroscopy under Pressure. <i>ACS Catalysis</i> , 2016 , 6, 8224-8228	13.1	30
64	Unraveling the Origins of the Synergy Effect between ZrO ₂ and CrOx in Supported CrZrOx for Propene Formation in Nonoxidative Propane Dehydrogenation. <i>ACS Catalysis</i> , 2020 , 10, 1575-1590	13.1	30
63	Vinylboron Self-Promoted Carbonylative Coupling with Cyclobutanone Oxime Esters. <i>Organic Letters</i> , 2019 , 21, 1766-1769	6.2	27
62	Selective Alcohol Oxidation by a Copper TEMPO Catalyst: Mechanistic Insights by Simultaneously Coupled Operando EPR/UV-Vis/ATR-IR Spectroscopy. <i>Angewandte Chemie</i> , 2015 , 127, 11957-11960	3.6	25
61	From sunflower oil toward 1,19-diester: Mechanistic elucidation. <i>Journal of Catalysis</i> , 2013 , 297, 44-55	7.3	24
60	A selective route to aryl-triphosphiranes and their titanocene-induced fragmentation. <i>Chemical Science</i> , 2019 , 10, 7859-7867	9.4	23
59	Practical and General Manganese-Catalyzed Carbonylative Coupling of Alkyl Iodides with Amides. <i>ChemCatChem</i> , 2017 , 9, 915-919	5.2	20
58	Unexpected reactions of [Ag(NCCH ₃) ₃][(V ₂ O ₃) ₂ (RPO ₃) ₄ subset F] cage compounds with H ₂ and NO. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6354-6	16.4	19
57	In situ formation of ZnO species for efficient propane dehydrogenation. <i>Nature</i> , 2021 , 599, 234-238	50.4	19
56	Sustainable Co-Synthesis of Glycolic Acid, Formamides and Formates from 1,3-Dihydroxyacetone by a Cu/Al O Catalyst with a Single Active Sites. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5251-5255	16.4	18
55	Practical Catalytic Cleavage of C(sp ³)-C(sp ²) Bonds in Amines. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10693-10697	16.4	18
54	Simultaneously Tuning the Defects and Surface Properties of TaN Nanoparticles by Mg-Zr Codoping for Significantly Accelerated Photocatalytic H ₂ Evolution. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10059-10064	16.4	17
53	Ni-In Synergy in CO Hydrogenation to Methanol. <i>ACS Catalysis</i> , 2021 , 11, 11371-11384	13.1	17
52	Controlling activity and selectivity of bare ZrO ₂ in non-oxidative propane dehydrogenation. <i>Applied Catalysis A: General</i> , 2019 , 585, 117189	5.1	16
51	Heterogeneous Platinum-Catalyzed C-H Perfluoroalkylation of Arenes and Heteroarenes. <i>Angewandte Chemie</i> , 2015 , 127, 4394-4398	3.6	16
50	In situ EPR study of chemical reactions in Q-band at higher temperatures: a challenge for elucidating structure-reactivity relationships in catalysis. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9873-80	16.4	16
49	Effects of Imidazole-Type Ligands in Cu/TEMPO-Mediated Aerobic Alcohol Oxidation. <i>Inorganic Chemistry</i> , 2017 , 56, 684-691	5.1	15

48	New directions in the preparation and redox chemistry of fluoride-templated tetranuclear vanadium phosphonate cage compounds, $M(n+)[(VO_3)_2(RPO_3)_4]$. <i>Inorganic Chemistry</i> , 2008 , 47, 9293-302	5.1	15
47	Synergistic effect of VO_x and MnO_x surface species for improved performance of $V_2O_5/Ce_{0.5}Ti_{0.5}Mn_xO_2$ catalysts in low-temperature NH_3 -SCR of NO. <i>Catalysis Science and Technology</i> , 2018 , 8, 6360-6374	5.5	15
46	Number of Reactive Charge Carriers A Hidden Linker between Band Structure and Catalytic Performance in Photocatalysts. <i>ACS Catalysis</i> , 2019 , 9, 8852-8861	13.1	14
45	The effect of ZrO_2 crystallinity in $CrZrO_x/SiO_2$ on non-oxidative propane dehydrogenation. <i>Applied Catalysis A: General</i> , 2020 , 590, 117350	5.1	14
44	A general and practical Ni-catalyzed C-H perfluoroalkylation of (hetero)arenes. <i>Chemical Communications</i> , 2019 , 55, 6723-6726	5.8	13
43	Glycerol as a Building Block for Prochiral Aminoketone, N-Formamide, and N-Methyl Amine Synthesis. <i>ChemSusChem</i> , 2016 , 9, 3133-3138	8.3	11
42	Effect of Formaldehyde in Selective Catalytic Reduction of NO by Ammonia (NH-SCR) on a Commercial VO-WO/TiO Catalyst under Model Conditions. <i>Environmental Science & Technology</i> , 2020 , 54, 11753-11761	10.3	11
41	Understanding trends in methane oxidation to formaldehyde: statistical analysis of literature data and based hereon experiments. <i>Catalysis Science and Technology</i> , 2019 , 9, 5111-5121	5.5	10
40	Controlling the O-Vacancy Formation and Performance of Au/ZnO Catalysts in CO_2 Reduction to Methanol by the ZnO Particle Size. <i>ACS Catalysis</i> , 2021 , 11, 9022-9033	13.1	10
39	Multivariate Analysis of Coupled Operando EPR/XANES/EXAFS/UV-Vis/ATR-IR Spectroscopy: A New Dimension for Mechanistic Studies of Catalytic Gas-Liquid Phase Reactions. <i>Chemistry - A European Journal</i> , 2020 , 26, 7395-7404	4.8	9
38	Ruthenium(III)/phosphine/pyridine complexes applied in the hydrogenation reactions of polar and apolar double bonds. <i>Journal of Molecular Structure</i> , 2016 , 1111, 84-89	3.4	9
37	Colloidal Manganese-Doped ZnS Nanoplatelets and Their Optical Properties. <i>Chemistry of Materials</i> , 2021 , 33, 275-284	9.6	9
36	Effect of metal ion addition on structural characteristics and photocatalytic activity of ordered mesoporous titania. <i>Journal of Sol-Gel Science and Technology</i> , 2019 , 91, 539-551	2.3	8
35	Rationalizing the Effect of Triethylaluminum on the Cr/SiO ₂ Phillips Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 2694-2706	13.1	8
34	Impact of Al Activators on Structure and Catalytic Performance of Cr Catalysts in Homogeneous Ethylene Oligomerization A Multitechnique in situ/operando Study. <i>ChemCatChem</i> , 2020 , 12, 1025-1035	5.2	8
33	Relations between Structure, Activity and Stability in C_3N_4 Based Photocatalysts Used for Solar Hydrogen Production. <i>Catalysts</i> , 2018 , 8, 52	4	8
32	From the Precursor to the Active State: Monitoring Metamorphosis of Electrocatalysts During Water Oxidation by In Situ Spectroscopy. <i>ChemElectroChem</i> , 2017 , 4, 2117-2122	4.3	7
31	Tuning the electronic and spin complexity in organic-inorganic molecular hybrid compounds. <i>Chemistry - A European Journal</i> , 2012 , 18, 6433-6	4.8	7

30	Ligand electronic fine-tuning and its repercussion on the photocatalytic activity and mechanistic pathways of the copper-photocatalysed aza-Henry reaction. <i>Catalysis Science and Technology</i> , 2020 , 10, 7745-7756	5.5	7
29	Cobalt Single-Atom Catalysts with High Stability for Selective Dehydrogenation of Formic Acid. <i>Angewandte Chemie</i> , 2020 , 132, 15983-15988	3.6	6
28	Control of Bridging Ligands in [(V ₂ O ₃) ₂ (RXO ₃) ₄ F] _n Cage Complexes: A Unique Way To Tune Their Chemical Properties. <i>Organometallics</i> , 2014 , 33, 4905-4910	3.8	6
27	Selective nickel-catalyzed fluoroalkylations of olefins. <i>Chemical Communications</i> , 2020 , 56, 15157-15160	5.8	6
26	Electronic metal-support interactions and their promotional effect on CO ₂ methanation on Ru/ZrO ₂ catalysts. <i>Journal of Catalysis</i> , 2021 , 400, 407-420	7.3	6
25	Scalable and selective deuteration of (hetero)arenes. <i>Nature Chemistry</i> , 2022 ,	17.6	5
24	Visible-Light-Induced Palladium-Catalyzed Dehydrogenative Carbonylation of Amines to Oxalamides. <i>Chemistry - A European Journal</i> , 2021 , 27, 5642-5647	4.8	5
23	Rhodium-catalyzed carbonylative coupling of alkyl halides with thiols: a radical process faster than easier nucleophilic substitution. <i>Chemical Communications</i> , 2021 , 57, 1466-1469	5.8	5
22	Role of Surface Acidity in Formation and Performance of Active Ni Single Sites in Supported Catalysts for Butene Dimerization: A View inside by Operando EPR and In Situ FTIR Spectroscopy. <i>ACS Catalysis</i> , 2021 , 11, 3541-3552	13.1	5
21	Tiny Species with Big Impact: High Activity of Cu Single Atoms on CeO ₂ /TiO ₂ Deciphered by Operando Spectroscopy. <i>ACS Catalysis</i> , 2021 , 11, 10933-10949	13.1	5
20	Localization and Delocalization of Spin Density in Mixed-Valence (V ^{IV} /V ^V) [(V ₂ O ₃) ₂ (PhPO ₃) ₄ F] _n (n = 1, 2): Theoretical and Experimental Studies. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 3582-3593	2.3	4
19	A Universal Catalyst for aerobic oxidations to synthesize (hetero)aromatic aldehydes, ketones, esters, acids, nitriles, and amides. <i>Chem</i> , 2022 , 8, 508-531	16.2	4
18	The Effect of Iron and Vanadium in VO _y /Ce _{1-x} FexO ₂ -ZrO ₂ Catalysts in Low-Temperature Selective Catalytic Reduction of NO _x by Ammonia. <i>ChemCatChem</i> , 2020 , 12, 2440-2451	5.2	4
17	Enhanced photocatalytic performance of polymeric carbon nitride through combination of iron loading and hydrogen peroxide treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 589, 124383	5.1	4
16	Metal/Metal Redox Isomerism Governed by Configuration. <i>Chemistry - A European Journal</i> , 2020 , 26, 16811-16817	4.8	4
15	Synergetic Bimetallic Oxidative Esterification of 5-Hydroxymethylfurfural under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 ,	8.3	3
14	Facile Synthesis of a Stable Side-on Phosphinyne Complex by Redox Driven Intramolecular Cyclisation. <i>Chemistry - A European Journal</i> , 2020 , 26, 11492-11502	4.8	3
13	Effects of N ₂ O and Water on Activity and Selectivity in the Oxidative Coupling of Methane over Mn ₂ WO ₄ /SiO ₂ : Role of Oxygen Species. <i>ACS Catalysis</i> , 1298-1309	13.1	3

12	Ta and Mo oxides supported on CeO ₂ -TiO ₂ for the selective catalytic reduction of NO _x with NH ₃ at low temperature. <i>Journal of Catalysis</i> , 2021 , 395, 325-339	7.3	3
11	Pyrimidopterin-Catalyzed Hydroamination of Stilbenes with Primary Amines: A Dual Photoredox and Hydrogen Atom Transfer Catalyst. <i>ACS Catalysis</i> , 2021 , 11, 4862-4869	13.1	3
10	In-situ experimental and computational approach to investigate the nature of active site in low-temperature CO-PROX over CuO _x -CeO ₂ catalyst. <i>Applied Catalysis A: General</i> , 2021 , 624, 118305	5.1	3
9	Steering the selectivity in CO ₂ reduction on highly active Ru/TiO ₂ catalysts: Support particle size effects. <i>Journal of Catalysis</i> , 2021 , 401, 160-173	7.3	3
8	Dye activation of heterogeneous Copper(II)-Species for visible light driven hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 28409-28420	6.7	2
7	Impact of dopants on catalysts containing Ce _{1-x} M _x O ₂ -[(M = Fe, Sb or Bi) in NH ₃ -SCR of NO _x] A multiple spectroscopic approach. <i>Journal of Catalysis</i> , 2021 ,	7.3	2
6	Supported Cu Single-Ion Catalyst for Total Carbon Utilization of C and C Biomass-Based Platform Molecules in the N-Formylation of Amines. <i>Chemistry - A European Journal</i> , 2021 , 27, 16889-16895	4.8	1
5	Fluorescent Hybrid Porous Polymers as Sustainable Heterogeneous Photocatalysts for Cross-Dehydrogenative Coupling Reactions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42889-42897	9.5	1
4	Oxygen vacancies in Ru/TiO - drivers of low-temperature CO methanation assessed by multimodal operando spectroscopy.. <i>IScience</i> , 2022 , 25, 103886	6.1	0
3	Dihydroxyacetone valorization with high atom efficiency via controlling radical oxidation pathways over natural mineral-inspired catalyst. <i>Nature Communications</i> , 2021 , 12, 6840	17.4	0
2	Impact of Al Activators on Structure and Catalytic Performance of Cr Catalysts in Homogeneous Ethylene Oligomerization] A Multitechnique in situ/operando Study. <i>ChemCatChem</i> , 2020 , 12, 964-964	5.2	
1	Innenrücktitelbild: Selective Alcohol Oxidation by a Copper TEMPO Catalyst: Mechanistic Insights by Simultaneously Coupled Operando EPR/UV-Vis/ATR-IR Spectroscopy (Angew. Chem. 40/2015). <i>Angewandte Chemie</i> , 2015 , 127, 12043-12043	3.6	