Jabor Rabeah

List of Publications by Year in Descending Order

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	Scalable and selective deuteration of (hetero)arenes.. *Nature Chemistry*, **2022**,	17.6	5
82	Oxygen vacancies in Ru/TiO - drivers of low-temperature CO methanation assessed by multimodal operando spectroscopy.. *IScience*, **2022**, 25, 103886	6.1	0
81	A □niversal□catalyst for aerobic oxidations to synthesize (hetero)aromatic aldehydes, ketones, esters, acids, nitriles, and amides. *CheM*, **2022**, 8, 508-531	16.2	4
80	In situ formation of ZnO species for efficient propane dehydrogenation. *Nature*, **2021**, 599, 234-238	50.4	19
79	Dihydroxyacetone valorization with high atom efficiency via controlling radical oxidation pathways over natural mineral-inspired catalyst. *Nature Communications*, **2021**, 12, 6840	17.4	0
78	Colloidal Manganese-Doped ZnS Nanoplatelets and Their Optical Properties. *Chemistry of Materials*, **2021**, 33, 275-284	9.6	9
77	Visible-Light-Induced Palladium-Catalyzed Dehydrogenative Carbonylation of Amines to Oxalamides. *Chemistry - A European Journal*, **2021**, 27, 5642-5647	4.8	5
76	Ta and Mo oxides supported on CeO2-TiO2 for the selective catalytic reduction of NOx with NH3 at low temperature. *Journal of Catalysis*, **2021**, 395, 325-339	7.3	3
75	Pyrimidopteridine-Catalyzed Hydroamination of Stilbenes with Primary Amines: A Dual Photoredox and Hydrogen Atom Transfer Catalyst. *ACS Catalysis*, **2021**, 11, 4862-4869	13.1	3
74	Impact of dopants on catalysts containing Ce1-xMxO2-□(M = Fe, Sb or Bi) in NH3-SCR of NOx □A multiple spectroscopic approach. *Journal of Catalysis*, **2021**,	7.3	2
73	Simultaneously Tuning the Defects and Surface Properties of TaN Nanoparticles by Mg-Zr Codoping for Significantly Accelerated Photocatalytic H Evolution. *Journal of the American Chemical Society*, **2021**, 143, 10059-10064	16.4	17
72	Protonated Imine-Linked Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution. *Angewandte Chemie - International Edition*, **2021**, 60, 19797-19803	16.4	38
71	Controlling the O-Vacancy Formation and Performance of Au/ZnO Catalysts in CO2 Reduction to Methanol by the ZnO Particle Size. *ACS Catalysis*, **2021**, 11, 9022-9033	13.1	10
70	Rhodium-catalyzed carbonylative coupling of alkyl halides with thiols: a radical process faster than easier nucleophilic substitution. *Chemical Communications*, **2021**, 57, 1466-1469	5.8	5
69	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. *ACS Catalysis*, **2021**, 11, 3541-3552	13.1	5
68	Ni-In Synergy in CO Hydrogenation to Methanol. *ACS Catalysis*, **2021**, 11, 11371-11384	13.1	17
67	Tiny Species with Big Impact: High Activity of Cu Single Atoms on CeO2□iO2 Deciphered by Operando Spectroscopy. *ACS Catalysis*, **2021**, 11, 10933-10949	13.1	5

66	In-situ experimental and computational approach to investigate the nature of active site in low-temperature CO-PROX over CuOx-CeO2 catalyst. *Applied Catalysis A: General*, **2021**, 624, 118305	5.1	3
65	Electronic metal-support interactions and their promotional effect on CO2 methanation on Ru/ZrO2 catalysts. *Journal of Catalysis*, **2021**, 400, 407-420	7.3	6
64	Supported Cu Single-Ion Catalyst for Total Carbon Utilization of C and C Biomass-Based Platform Molecules in the N-Formylation of Amines. *Chemistry - A European Journal*, **2021**, 27, 16889-16895	4.8	1
63	Fluorescent Hybrid Porous Polymers as Sustainable Heterogeneous Photocatalysts for Cross-Dehydrogenative Coupling Reactions. *ACS Applied Materials & Interfaces*, **2021**, 13, 42889-42897	8.5	1
62	Steering the selectivity in CO2 reduction on highly active Ru/TiO2 catalysts: Support particle size effects. *Journal of Catalysis*, **2021**, 401, 160-173	7.3	3
61	Cobalt Single-Atom Catalysts with High Stability for Selective Dehydrogenation of Formic Acid. *Angewandte Chemie - International Edition*, **2020**, 59, 15849-15854	16.4	65
60	Cobalt Single-Atom Catalysts with High Stability for Selective Dehydrogenation of Formic Acid. *Angewandte Chemie*, **2020**, 132, 15983-15988	3.6	6
59	Facile Synthesis of a Stable Side-on Phosphinyne Complex by Redox Driven Intramolecular Cyclisation. *Chemistry - A European Journal*, **2020**, 26, 11492-11502	4.8	3
58	Visible-Light Photocatalytic Ozonation Using Graphitic CN Catalysts: A Hydroxyl Radical Manufacturer for Wastewater Treatment. *Accounts of Chemical Research*, **2020**, 53, 1024-1033	24.3	36
57	Encapsulation of Ru nanoparticles: Modifying the reactivity toward CO and CO2 methanation on highly active Ru/TiO2 catalysts. *Applied Catalysis B: Environmental*, **2020**, 270, 118846	21.8	43
56	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. *Chemistry - A European Journal*, **2020**, 26, 7395-7404	4.8	9
55	Impact of Al Activators on Structure and Catalytic Performance of Cr Catalysts in Homogeneous Ethylene Oligomerization □A Multitechnique in situ/operando Study. *ChemCatChem*, **2020**, 12, 964-964	5.2	
54	Rationalizing the Effect of Triethylaluminum on the Cr/SiO2 Phillips Catalysts. *ACS Catalysis*, **2020**, 10, 2694-2706	13.1	8
53	Impact of Al Activators on Structure and Catalytic Performance of Cr Catalysts in Homogeneous Ethylene Oligomerization □A Multitechnique in situ/operando Study. *ChemCatChem*, **2020**, 12, 1025-1035	5.2	8
52	The Effect of Iron and Vanadium in VOy/Ce1-xFexO2-□Catalysts in Low-Temperature Selective Catalytic Reduction of NOx by Ammonia. *ChemCatChem*, **2020**, 12, 2440-2451	5.2	4
51	Enhanced photocatalytic performance of polymeric carbon nitride through combination of iron loading and hydrogen peroxide treatment. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 589, 124383	5.1	4
50	Unraveling the Origins of the Synergy Effect between ZrO2 and CrOx in Supported CrZrOx for Propene Formation in Nonoxidative Propane Dehydrogenation. *ACS Catalysis*, **2020**, 10, 1575-1590	13.1	30
49	The effect of ZrO2 crystallinity in CrZrOx/SiO2 on non-oxidative propane dehydrogenation. *Applied Catalysis A: General*, **2020**, 590, 117350	5.1	14

48	Metal/Metal Redox Isomerism Governed by Configuration. *Chemistry - A European Journal*, **2020**, 26, 16811-16817	4.8	4
47	Selective nickel-catalyzed fluoroalkylations of olefins. *Chemical Communications*, **2020**, 56, 15157-15160	5.8	6
46	Ligand electronic fine-tuning and its repercussion on the photocatalytic activity and mechanistic pathways of the copper-photocatalysed aza-Henry reaction. *Catalysis Science and Technology*, **2020**, 10, 7745-7756	5.5	7
45	Effect of Formaldehyde in Selective Catalytic Reduction of NO by Ammonia (NH-SCR) on a Commercial VO-WO/TiO Catalyst under Model Conditions. *Environmental Science & Technology* , **2020**, 54, 11753-11761	10.3	11
44	Controlling activity and selectivity of bare ZrO2 in non-oxidative propane dehydrogenation. *Applied Catalysis A: General*, **2019**, 585, 117189	5.1	16
43	Sustainable Co-Synthesis of Glycolic Acid, Formamides and Formates from 1,3-Dihydroxyacetone by a Cu/Al O Catalyst with a Single Active Sites. *Angewandte Chemie - International Edition*, **2019**, 58, 5251-5255	16.4	18
42	Practical Catalytic Cleavage of C(sp)-C(sp) Bonds in Amines. *Angewandte Chemie - International Edition*, **2019**, 58, 10693-10697	16.4	18
41	Effect of metal ion addition on structural characteristics and photocatalytic activity of ordered mesoporous titania. *Journal of Sol-Gel Science and Technology*, **2019**, 91, 539-551	2.3	8
40	Synergetic Bimetallic Oxidative Esterification of 5-Hydroxymethylfurfural under Mild Conditions. *ACS Sustainable Chemistry and Engineering*, **2019**,	8.3	3
39	Dye activation of heterogeneous Copper(II)-Species for visible light driven hydrogen generation. *International Journal of Hydrogen Energy*, **2019**, 44, 28409-28420	6.7	2
38	A general and practical Ni-catalyzed C-H perfluoroalkylation of (hetero)arenes. *Chemical Communications*, **2019**, 55, 6723-6726	5.8	13
37	Improving Selectivity and Activity of CO2 Reduction Photocatalysts with Oxygen. *CheM*, **2019**, 5, 1818-1832	23.5	32
36	Vinylboron Self-Promoted Carbonylative Coupling with Cyclobutanone Oxime Esters. *Organic Letters*, **2019**, 21, 1766-1769	6.2	27
35	Number of Reactive Charge Carriers: A Hidden Linker between Band Structure and Catalytic Performance in Photocatalysts. *ACS Catalysis*, **2019**, 9, 8852-8861	13.1	14
34	Understanding trends in methane oxidation to formaldehyde: statistical analysis of literature data and based hereon experiments. *Catalysis Science and Technology*, **2019**, 9, 5111-5121	5.5	10
33	A selective route to aryl-triphosphiranes and their titanocene-induced fragmentation. *Chemical Science*, **2019**, 10, 7859-7867	9.4	23
32	The role of ozone and influence of band structure in WO photocatalysis and ozone integrated process for pharmaceutical wastewater treatment. *Journal of Hazardous Materials*, **2018**, 360, 481-489	12.8	48
31	Synergistic effect of VOx and MnOx surface species for improved performance of V2O5/Ce0.5Ti0.5MnxO2catalysts in low-temperature NH3-SCR of NO. *Catalysis Science and Technology*, **2018**, 8, 6360-6374	5.5	15

30	Gallic Acid-Promoted SET Process for Cyclobutanone Oximes Activation and (Carbonylative-)Alkylation of Olefins. *ACS Catalysis*, **2018**, 8, 10926-10930	13.1	44
29	Relations between Structure, Activity and Stability in C3N4 Based Photocatalysts Used for Solar Hydrogen Production. *Catalysts*, **2018**, 8, 52	4	8
28	Efficient VOx/Ce1−xTixO2 Catalysts for Low-Temperature NH3-SCR: Reaction Mechanism and Active Sites Assessed by in Situ/Operando Spectroscopy. *ACS Catalysis*, **2017**, 7, 1693-1705	13.1	118
27	Practical and General Manganese-Catalyzed Carbonylative Coupling of Alkyl Iodides with Amides. *ChemCatChem*, **2017**, 9, 915-919	5.2	20
26	From the Precursor to the Active State: Monitoring Metamorphosis of Electrocatalysts During Water Oxidation by In Situ Spectroscopy. *ChemElectroChem*, **2017**, 4, 2117-2122	4.3	7
25	Effects of Imidazole-Type Ligands in Cu/TEMPO-Mediated Aerobic Alcohol Oxidation. *Inorganic Chemistry*, **2017**, 56, 684-691	5.1	15
24	Origins of high catalyst loading in copper(i)-catalysed Ullmann-Goldberg C-N coupling reactions. *Chemical Science*, **2017**, 8, 7203-7210	9.4	32
23	Fast Electron Transfer and •OH Formation: Key Features for High Activity in Visible-Light-Driven Ozonation with C3N4 Catalysts. *ACS Catalysis*, **2017**, 7, 6198-6206	13.1	101
22	Glycerol as a Building Block for Prochiral Aminoketone, N-Formamide, and N-Methyl Amine Synthesis. *ChemSusChem*, **2016**, 9, 3133-3138	8.3	11
21	Tracing Active Sites in Supported Ni Catalysts during Butene Oligomerization by Operando Spectroscopy under Pressure. *ACS Catalysis*, **2016**, 6, 8224-8228	13.1	30
20	Palladium-Catalyzed Trifluoromethylation of (Hetero)Arenes with CF3 Br. *Angewandte Chemie - International Edition*, **2016**, 55, 2782-6	16.4	95
19	Ruthenium(III)/phosphine/pyridine complexes applied in the hydrogenation reactions of polar and apolar double bonds. *Journal of Molecular Structure*, **2016**, 1111, 84-89	3.4	9
18	Palladium-Catalyzed Trifluoromethylation of (Hetero)Arenes with CF3Br. *Angewandte Chemie*, **2016** , 128, 2832-2836	3.6	31
17	Heterogeneous Platinum-Catalyzed C?H Perfluoroalkylation of Arenes and Heteroarenes. *Angewandte Chemie*, **2015**, 127, 4394-4398	3.6	16
16	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). *Angewandte Chemie*, **2015**, 127, 12043-12043	3.6	
15	Selective Alcohol Oxidation by a Copper TEMPO Catalyst: Mechanistic Insights by Simultaneously Coupled Operando EPR/UV-Vis/ATR-IR Spectroscopy. *Angewandte Chemie - International Edition*, **2015**, 54, 11791-4	16.4	55
14	Selective Alcohol Oxidation by a Copper TEMPO Catalyst: Mechanistic Insights by Simultaneously Coupled Operando EPR/UV-Vis/ATR-IR Spectroscopy. *Angewandte Chemie*, **2015**, 127, 11957-11960	3.6	25
13	Heterogeneous platinum-catalyzed C-H perfluoroalkylation of arenes and heteroarenes. *Angewandte Chemie - International Edition*, **2015**, 54, 4320-4	16.4	66

12	Control of Bridging Ligands in [(V2O3)2(RXO3)4?F]Cage Complexes: A Unique Way To Tune Their Chemical Properties. *Organometallics*, **2014**, 33, 4905-4910	3.8	6
11	Nanoscale Fe2O3-based catalysts for selective hydrogenation of nitroarenes to anilines. *Science*, **2013**, 342, 1073-6	33.3	704
10	From sunflower oil toward 1,19-diester: Mechanistic elucidation. *Journal of Catalysis*, **2013**, 297, 44-55	7.3	24
9	Formation, Operation and Deactivation of Cr Catalysts in Ethylene Tetramerization Directly Assessed by Operando EPR and XAS. *ACS Catalysis*, **2013**, 3, 95-102	13.1	61
8	Heterogenized cobalt oxide catalysts for nitroarene reduction by pyrolysis of molecularly defined complexes. *Nature Chemistry*, **2013**, 5, 537-43	17.6	513
7	Tuning the electronic and spin complexity in organic-inorganic molecular hybrid compounds. *Chemistry - A European Journal*, **2012**, 18, 6433-6	4.8	7
6	In situ EPR study of chemical reactions in Q-band at higher temperatures: a challenge for elucidating structure-reactivity relationships in catalysis. *Journal of the American Chemical Society*, **2010**, 132, 9873-80	16.4	16
5	Monitoring Structure and Valence State of Chromium Sites during Catalyst Formation and Ethylene Oligomerization by in Situ EPR Spectroscopy. *Organometallics*, **2008**, 27, 3849-3856	3.8	60
4	New directions in the preparation and redox chemistry of fluoride-templated tetranuclear vanadium phosphonate cage compounds, M(n+)[(V2O3)2(RPO3)4. *Inorganic Chemistry*, **2008**, 47, 9293-302	5.1	15
3	Unexpected reactions of [Ag(NCCH3)3][(V2O3)2(RPO3)4 subsetF] cage compounds with H2 and NO. *Angewandte Chemie - International Edition*, **2007**, 46, 6354-6	16.4	19
2	Localization and Delocalization of Spin Density in Mixed-Valence (VIV/VV) [(V2O3)2(PhPO3)4?F] (n = 1, 2): Theoretical and Experimental Studies. *European Journal of Inorganic Chemistry*, **2007**, 2007, 3582-3593	2.3	4
1	Effects of N2O and Water on Activity and Selectivity in the Oxidative Coupling of Methane over MnNa2WO4/SiO2: Role of Oxygen Species. *ACS Catalysis*,1298-1309	13.1	3