

# Olumide Bolarinwa Ayodele

## List of Publications by Year in descending order

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39  
papers

1,147  
citations

304368

22  
h-index

395343

33  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1389  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resolving one of the holy grails of catalysis: Direct nonoxidative methane conversion to ethylene over plasma-assisted atomically dispersed Pt catalyst. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 41527-41539.	3.8	7
2	Rational design of zeolite Y supported oxalate and borohydride ligands functionalized Cu catalysts for CO <sub>2</sub> conversion to specialty chemicals. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121381.	10.8	7
3	Modulation effects of Cu modification and ligands (oxalate and borohydride) functionalization on Pt d-band center, upper d-band edge, and alloyed PtCe support acidity on semihydrogenation of acetylene. <i>Journal of Energy Chemistry</i> , 2022, , .	7.1	1
4	Influence of metakaolinization temperature on the structure and activity of metakaolin supported Ni catalyst in dry methane reforming. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103239.	3.3	9
5	Structural characterization and optical constants of p-toluene sulfonic acid doped polyaniline and its composites of chitosan and reduced graphene-oxide. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1468-1476.	2.6	24
6	Synergistic Computationalâ€“Experimental Discovery of Highly Selective PtCu Nanocluster Catalysts for Acetylene Semihydrogenation. <i>ACS Catalysis</i> , 2020, 10, 451-457.	5.5	35
7	Physicochemical properties of acid/base activated kaolinite modified with oxalic acid-functionalized nickel nanoparticles. <i>Catalysis Today</i> , 2020, 358, 394-402.	2.2	3
8	Selectivity boost in partial hydrogenation of acetylene via atomic dispersion of platinum over ceria. <i>Catalysis Science and Technology</i> , 2020, 10, 7471-7475.	2.1	4
9	Synthesis and characterisation of a ternary composite of polyaniline, reduced graphene-oxide and chitosan with reduced optical band gap and stable aqueous dispersibility. <i>Results in Physics</i> , 2019, 15, 102690.	2.0	56
10	Exploring kaolinite as dry methane reforming catalyst support: Influences of chemical activation, organic ligand functionalization and calcination temperature. <i>Applied Catalysis A: General</i> , 2019, 576, 20-31.	2.2	29
11	Enhanced Sensitivity of Surface Plasmon Resonance Biosensor Functionalized with Doped Polyaniline Composites for the Detection of Low-Concentration Acetone Vapour. <i>Journal of Sensors</i> , 2019, 2019, 1-13.	0.6	24
12	A Review of Biosensors for Non-Invasive Diabetes Monitoring and Screening in Human Exhaled Breath. <i>IEEE Access</i> , 2019, 7, 5963-5974.	2.6	48
13	Polymerâ€™s Characterization and Properties. <i>Springer Series on Polymer and Composite Materials</i> , 2019, , 59-75.	0.5	1
14	Insight into wastewater decontamination using polymeric adsorbents. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1651-1672.	3.3	97
15	Modelling and simulation of surface plasmon resonance breathe acetone sensor based on doped polyanilineâ€™graphene composite. <i>Journal of Physics: Conference Series</i> , 2018, 1123, 012020.	0.3	2
16	Co-synthesis of methanol and methyl formate from CO <sub>2</sub> hydrogenation over oxalate ligand functionalized ZSM-5 supported Cu/ZnO catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 17, 273-283.	3.3	24
17	The influence of catalyst factors for sustainable production of hydrocarbons via Fischer-Tropsch synthesis. <i>Reviews in Chemical Engineering</i> , 2017, 33, .	2.3	19
18	Influence of oxalate ligand functionalization on Co/ZSM-5 activity in Fischer Tropsch synthesis and hydrodeoxygenation of oleic acid into hydrocarbon fuels. <i>Scientific Reports</i> , 2017, 7, 10008.	1.6	26

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19	Eliminating reverse water gas shift reaction in CO <sub>2</sub> hydrogenation to primary oxygenates over MFI-type zeolite supported Cu/ZnO nanocatalysts. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 20, 368-377.	3.3	23
20	Transesterification of Mixture of Castor Oil and Sunflower Oil in Millichannel Reactor: FAME Yield and Flow Behaviour. <i>Procedia Engineering</i> , 2016, 148, 378-384.	1.2	19
21	Nitrile-functionalized azepanium ionic liquids: Synthesis characterization and thermophysical properties. <i>Journal of Molecular Liquids</i> , 2016, 221, 1140-1144.	2.3	7
22	Structure and reactivity of ZSM-5 supported oxalate ligand functionalized nano-Fe catalyst for low temperature direct methane conversion to methanol. <i>Energy Conversion and Management</i> , 2016, 126, 537-547.	4.4	32
23	Effect of ethanedioic acid functionalization on Ni/Al <sub>2</sub> O <sub>3</sub> catalytic hydrodeoxygenation and isomerization of octadec-9-enoic acid into biofuel: kinetics and Arrhenius parameters. <i>Journal of Energy Chemistry</i> , 2016, 25, 158-168.	7.1	25
24	Effect of precursor acidity on zeolite supported Pd catalyst properties and hydrodeoxygenation activity for the production of biofuel. <i>Journal of Molecular Catalysis A</i> , 2015, 400, 179-186.	4.8	14
25	Optimization of catalytic hydrodeoxygenation of oleic acid into biofuel using fluoroplatinum oxalate zeolite supported catalyst. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 47, 113-124.	2.7	14
26	Hydrodeoxygenation of oleic acid into n- and iso-paraffin biofuel using zeolite supported fluoro-oxalate modified molybdenum catalyst: Kinetics study. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 50, 142-152.	2.7	33
27	Catalytic upgrading of oleic acid into biofuel using Mo modified zeolite supported Ni oxalate catalyst functionalized with fluoride ion. <i>Energy Conversion and Management</i> , 2014, 88, 1111-1119.	4.4	31
28	Catalytic activity of copper modified bentonite supported ferrioxalate on the aqueous degradation and kinetics of mineralization of Direct Blue 71, Acid Green 25 and Reactive Blue 4 in photo-Fenton process. <i>Applied Catalysis A: General</i> , 2014, 470, 285-293.	2.2	35
29	Preparation and Characterization of Zeolite Supported Fluoropalladium Oxalate Catalyst for Hydrodeoxygenation of Oleic Acid into Paraffinic Fuel. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 650-657.	1.8	13
30	Hydrodeoxygenation of Stearic Acid into Normal and Iso-Octadecane Biofuel with Zeolite Supported Palladium-Oxalate Catalyst. <i>Energy &amp; Fuels</i> , 2014, 28, 5872-5881.	2.5	19
31	Preparation and characterization of alumina supported nickel-oxalate catalyst for the hydrodeoxygenation of oleic acid into normal and iso-octadecane biofuel. <i>Energy Conversion and Management</i> , 2014, 88, 1104-1110.	4.4	34
32	Fe-modified local clay as effective and reusable heterogeneous photo-Fenton catalyst for the decolorization of Acid Green 25. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1459-1467.	2.7	38
33	Development of kaolinite supported ferric oxalate heterogeneous catalyst for degradation of 4-nitrophenol in photo-Fenton process. <i>Applied Clay Science</i> , 2013, 83-84, 171-181.	2.6	40
34	Effect of phosphoric acid treatment on kaolinite supported ferrioxalate catalyst for the degradation of amoxicillin in batch photo-Fenton process. <i>Applied Clay Science</i> , 2013, 72, 74-83.	2.6	47
35	Ackee apple ( <i>Blighia sapida</i> ) seeds: a novel adsorbent for the removal of Congo Red dye from aqueous solutions. <i>Chemistry and Ecology</i> , 2013, 29, 58-71.	0.6	42
36	Synthesis of copper pillared bentonite ferrioxalate catalyst for degradation of 4-nitrophenol in visible light assisted Fenton process. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 966-974.	2.9	53

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37	Artificial Neural Networks, Optimization and Kinetic Modeling of Amoxicillin Degradation in Photo-Fenton Process Using Aluminum Pillared Montmorillonite-Supported Ferrioxalate Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 16311-16319.	1.8	44
38	Degradation of phenol in photo-Fenton process by phosphoric acid modified kaolin supported ferric-oxalate catalyst: Optimization and kinetic modeling. <i>Chemical Engineering Journal</i> , 2012, 197, 181-192.	6.6	73
39	Pillared montmorillonite supported ferric oxalate as heterogeneous photo-Fenton catalyst for degradation of amoxicillin. <i>Applied Catalysis A: General</i> , 2012, 413-414, 301-309.	2.2	95