

# Jamesh Mohammed Ibrahim

## 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.

34 papers	2,479 citations	22 h-index	34 g-index
34 ext. papers	3,011 ext. citations	6.5 avg, IF	6.54 L-index

#	Paper	IF	Citations
34	Recent progress on earth abundant hydrogen evolution reaction and oxygen evolution reaction bifunctional electrocatalyst for overall water splitting in alkaline media. <i>Journal of Power Sources</i> , <b>2016</b> , 333, 213-236	8.9	299
33	Recent progress on earth abundant electrocatalysts for oxygen evolution reaction (OER) in alkaline medium to achieve efficient water splitting [A review. <i>Journal of Power Sources</i> , <b>2018</b> , 400, 31-68	8.9	279
32	Surface design of biodegradable magnesium alloys [A review. <i>Surface and Coatings Technology</i> , <b>2013</b> , 233, 2-12	4.4	245
31	Recent progress on earth abundant electrocatalysts for hydrogen evolution reaction (HER) in alkaline medium to achieve efficient water splitting [A review. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 34, 111-160	12	198
30	Corrosion behavior of commercially pure Mg and ZM21 Mg alloy in Ringer's solution [Long term evaluation by EIS. <i>Corrosion Science</i> , <b>2011</b> , 53, 645-654	6.8	181
29	Enhanced antimicrobial properties, cytocompatibility, and corrosion resistance of plasma-modified biodegradable magnesium alloys. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 544-56	10.8	157
28	Electrochemical corrosion behavior of biodegradable Mg <sub>92</sub> RE and Mg <sub>90</sub> Zn <sub>2</sub> alloys in Ringer's solution and simulated body fluid. <i>Corrosion Science</i> , <b>2015</b> , 91, 160-184	6.8	129
27	A review on NiFe-based electrocatalysts for efficient alkaline oxygen evolution reaction. <i>Journal of Power Sources</i> , <b>2020</b> , 448, 227375	8.9	116
26	Advancement of technology towards developing Na-ion batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 378, 268-300	8.9	101
25	Electrodeposition of hydroxyapatite coating on magnesium for biomedical applications <b>2012</b> , 9, 495-502		98
24	Effects of zirconium and oxygen plasma ion implantation on the corrosion behavior of ZK60 Mg alloy in simulated body fluids. <i>Corrosion Science</i> , <b>2014</b> , 82, 7-26	6.8	80
23	Constructing Earth-abundant 3D Nanoarrays for Efficient Overall Water Splitting [A Review. <i>ChemCatChem</i> , <b>2019</b> , 11, 1550-1575	5.2	76
22	Thermal oxidation of titanium: Evaluation of corrosion resistance as a function of cooling rate. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 138, 565-572	4.4	69
21	Plasma modified Mg <sub>90</sub> Zn <sub>2</sub> alloy with enhanced surface corrosion resistance. <i>Corrosion Science</i> , <b>2014</b> , 78, 121-129	6.8	65
20	Effects of silicon plasma ion implantation on electrochemical corrosion behavior of biodegradable Mg <sub>92</sub> RE Alloy. <i>Corrosion Science</i> , <b>2013</b> , 69, 158-163	6.8	54
19	Self-protection against corrosion of aged magnesium alloy in simulated physiological environment. <i>Corrosion Science</i> , <b>2013</b> , 68, 279-285	6.8	50
18	Tuning the electronic structure of the earth-abundant electrocatalysts for oxygen evolution reaction (OER) to achieve efficient alkaline water splitting [A review. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 56, 299-342	12	44

17	A promising energy storage system: rechargeable NiZn battery. <i>Rare Metals</i> , <b>2017</b> , 36, 381-396	5.5	42
16	Recent advances on flexible electrodes for Na-ion batteries and LiB batteries. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 32, 15-44	12	42
15	Effects of zirconium and nitrogen plasma immersion ion implantation on the electrochemical corrosion behavior of MgZrE alloy in simulated body fluid and cell culture medium. <i>Corrosion Science</i> , <b>2014</b> , 86, 239-251	6.8	40
14	Effect of Thermal Oxidation on Corrosion Resistance of Commercially Pure Titanium in Acid Medium. <i>Journal of Materials Engineering and Performance</i> , <b>2012</b> , 21, 900-906	1.6	38
13	Evaluation of corrosion resistance and cytocompatibility of graded metal carbon film on Ti and NiTi prepared by hybrid cathodic arc/glow discharge plasma-assisted chemical vapor deposition. <i>Corrosion Science</i> , <b>2015</b> , 97, 126-138	6.8	32
12	Effect of surface mechanical attrition treatment of titanium using alumina balls: surface roughness, contact angle and apatite forming ability. <i>Frontiers of Materials Science</i> , <b>2013</b> , 7, 285-294	2.5	15
11	Graded metal carbon protein binding films prepared by hybrid cathodic arc glow discharge plasma assisted chemical vapor deposition. <i>Surface and Coatings Technology</i> , <b>2015</b> , 265, 222-234	4.4	8
10	Synthesis, characterization stereochemistry and anti-bacterial evaluation of certain N-acyl-c-3,t-3-dimethyl-r-2,c-6-diphenylpiperidin-4-ones. <i>Journal of Molecular Structure</i> , <b>2016</b> , 1120, 70-78	3.4	6
9	Effect of thermal oxidation on the corrosion resistance of Ti6Al4V alloy in hydrochloric and nitric acid medium. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2013</b> , 64, 902-907	1.6	5
8	Corrosion resistant Ti alloy for sulphuric acid medium: Suitability of TiMo alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2011</b> , 63, n/a-n/a	1.6	4
7	Effects of pulse voltage and deposition time on the adhesion strength of graded metal/carbon films deposited on bendable stainless steel foils by hybrid cathodic arc glow discharge plasma assisted chemical vapor deposition. <i>Applied Surface Science</i> , <b>2016</b> , 366, 535-544	6.7	3
6	1-Acetyl-c-3,t-3-dimethyl-r-2,c-6-diphenyl-piperidin-4-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2009</b> , 65, o1974		2
5	c-3,t-3-Dimethyl-r-2,c-6-diphenyl-piperidin-4-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2009</b> , 65, o2794		1
4	ORR/OER activity and zinc-air battery performance of various kinds of graphene-based air catalysts. <i>Materials Science for Energy Technologies</i> , <b>2021</b> , 4, 1-22	5.2	0
3	c-3,t-3-Dimethyl-4-oxo-r-2,c-6-diphenyl-piperidine-1-carboxamide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2009</b> , 65, o2808		
2	1-Chloro-acetyl-3,3-dimethyl-2,6-di-phenyl-piperidin-4-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2008</b> , 64, o2041		
1	1-Dichloro-acetyl-3,3-dimethyl-2,6-diphenyl-piperidin-4-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2008</b> , 65, o10		