

# Mosab Kaseem

## List of Publications by Year in descending order

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84  
papers

4,280  
citations

101543

36  
h-index

114465

63  
g-index

85  
all docs

85  
docs citations

85  
times ranked

3781  
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties and medical applications of polylactic acid: A review. EXPRESS Polymer Letters, 2015, 9, 435-455.	2.1	505
2	Polylactic acid blends: The future of green, light and tough. Progress in Polymer Science, 2018, 85, 83-127.	24.7	418
3	Recycling of waste from polymer materials: An overview of the recent works. Polymer Degradation and Stability, 2013, 98, 2801-2812.	5.8	352
4	Recent progress in surface modification of metals coated by plasma electrolytic oxidation: Principle, structure, and performance. Progress in Materials Science, 2021, 117, 100735.	32.8	282
5	Synthesis and antioxidant activities of Schiff bases and their complexes: a review. Applied Organometallic Chemistry, 2016, 30, 810-817.	3.5	163
6	Thermoplastic starch blends: A review of recent works. Polymer Science - Series A, 2012, 54, 165-176.	1.0	112
7	Fabrication and materials properties of polystyrene/carbon nanotube (PS/CNT) composites: A review. European Polymer Journal, 2016, 79, 36-62.	5.4	112
8	Soft plasma electrolysis with complex ions for optimizing electrochemical performance. Scientific Reports, 2017, 7, 44458.	3.3	95
9	Rheological and mechanical characterization of poly(lactic acid)/polypropylene polymer blends. Journal of Polymer Research, 2011, 18, 1799-1806.	2.4	85
10	Biodegradable polymer blends and composites: An overview. Polymer Science - Series A, 2014, 56, 812-829.	1.0	79
11	Dual incorporation of SiO <sub>2</sub> and ZrO <sub>2</sub> nanoparticles into the oxide layer on 6061 Al alloy via plasma electrolytic oxidation: Coating structure and corrosion properties. Journal of Alloys and Compounds, 2017, 707, 358-364.	5.5	76
12	Effect of recycling on rheological and mechanical properties of poly(lactic acid)/polystyrene polymer blend. Journal of Materials Science, 2011, 46, 3013-3019.	3.7	71
13	Effect of Deformation Temperature on Microstructure and Mechanical Properties of AZ31 Mg Alloy Processed by Differential-Speed Rolling. Journal of Materials Science and Technology, 2015, 31, 498-503.	10.7	67
14	Rheological and mechanical properties of poly(lactic acid)/polystyrene polymer blend. Polymer Bulletin, 2010, 65, 509-519.	3.3	61
15	Triggering the hydroxyapatite deposition on the surface of PEO-coated Ti-6Al-4V alloy via the dual incorporation of Zn and Mg ions. Journal of Alloys and Compounds, 2020, 819, 153038.	5.5	59
16	A novel hybrid composite composed of albumin, WO <sub>3</sub> , and LDHs film for smart corrosion protection of Mg alloy. Composites Part B: Engineering, 2021, 204, 108490.	12.0	57
17	Effect of sodium benzoate on corrosion behavior of 6061 Al alloy processed by plasma electrolytic oxidation. Surface and Coatings Technology, 2015, 283, 268-273.	4.8	54
18	Morphological modification and corrosion response of MgO and Mg <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> composite formed on magnesium alloy. Composites Part B: Engineering, 2019, 176, 107225.	12.0	54

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19	Benzoate intercalated Mg-Al-layered double hydroxides (LDHs) as efficient chloride traps for plasma electrolysis coatings. <i>Journal of Alloys and Compounds</i> , 2019, 787, 772-778.	5.5	53
20	Incorporation of MoO <sub>2</sub> and ZrO <sub>2</sub> particles into the oxide film formed on 7075 Al alloy via micro-arc oxidation. <i>Materials Letters</i> , 2016, 182, 260-263.	2.6	52
21	A novel composite system composed of zirconia and LDHs film grown on plasma electrolysis coating: Toward a stable smart coating. <i>Ultrasonics Sonochemistry</i> , 2018, 49, 316-324.	8.2	50
22	Melt Rheology of Poly(Lactic Acid)/Low Density Polyethylene Polymer Blends. <i>Advances in Chemical Engineering and Science</i> , 2011, 01, 208-214.	0.5	49
23	Simultaneous improvement of corrosion resistance and bioactivity of a titanium alloy via wet and dry plasma treatments. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156840.	5.5	47
24	Electrochemical and bioactive characteristics of the porous surface formed on Ti-xNb alloys via plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2019, 378, 125027.	4.8	46
25	Review of Recent Advances in Polylactic Acid/TiO <sub>2</sub> Composites. <i>Materials</i> , 2019, 12, 3659.	2.9	46
26	Stabilization of AZ31 Mg alloy in sea water via dual incorporation of MgO and WO <sub>3</sub> during micro-arc oxidation. <i>Journal of Alloys and Compounds</i> , 2021, 853, 157036.	5.5	43
27	Mechanical properties and compatibility of polylactic acid/polystyrene polymer blend. <i>Materials Letters</i> , 2016, 164, 409-412.	2.6	41
28	Microstructural characteristics of oxide layer formed by plasma electrolytic oxidation: Nanocrystalline and amorphous structures. <i>Journal of Alloys and Compounds</i> , 2017, 707, 167-171.	5.5	41
29	Formation of flower-like structures for optimizing the corrosion resistance of Mg alloy. <i>Materials Letters</i> , 2018, 221, 196-200.	2.6	40
30	Fabrication of functionalized coating with a unique flowery-flake structure for an effective corrosion performance and catalytic degradation. <i>Chemical Engineering Journal</i> , 2021, 420, 129737.	12.7	40
31	A review on recent researches on polylactic acid/carbon nanotube composites. <i>Polymer Bulletin</i> , 2017, 74, 2921-2937.	3.3	38
32	Formation of stable coral reef-like structures via self-assembly of functionalized polyvinyl alcohol for superior corrosion performance of AZ31 Mg alloy. <i>Materials and Design</i> , 2020, 193, 108823.	7.0	37
33	Electrochemical Response of Al <sub>2</sub> O <sub>3</sub> -MoO <sub>2</sub> -TiO <sub>2</sub> Oxide Films Formed on 6061 Al Alloy by Plasma Electrolytic Oxidation. <i>Journal of the Electrochemical Society</i> , 2016, 163, C587-C592.	2.9	36
34	Corrosion behavior of Al-1wt% Mg-0.85wt%Si alloy coated by micro-arc-oxidation using TiO <sub>2</sub> and Na <sub>2</sub> MoO <sub>4</sub> additives: Role of current density. <i>Journal of Alloys and Compounds</i> , 2017, 723, 448-455.	5.5	36
35	Toward a nearly defect-free coating via high-energy plasma sparks. <i>Scientific Reports</i> , 2017, 7, 2378.	3.3	36
36	Hard acid-hard base interactions responsible for densification of alumina layer for superior electrochemical performance. <i>Corrosion Science</i> , 2020, 170, 108663.	6.6	36

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37	Improving the electrochemical stability of AZ31 Mg alloy in a 3.5wt.% NaCl solution via the surface functionalization of plasma electrolytic oxidation coating. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 1311-1325.	11.9	35
38	Melt Flow Behavior and Processability of Polylactic Acid/Polystyrene (PLA/PS) Polymer Blends. <i>Journal of Polymers and the Environment</i> , 2017, 25, 994-998.	5.0	34
39	Rheological and mechanical properties of polypropylene/thermoplastic starch blend. <i>Polymer Bulletin</i> , 2012, 68, 1079-1091.	3.3	33
40	Bimetallic Cu/Fe MOF-Based Nanosheet Film via Binder-Free Drop-Casting Route: A Highly Efficient Urea-Electrolysis Catalyst. <i>Nanomaterials</i> , 2022, 12, 1916.	4.1	33
41	The effect of in-situ reactive incorporation of MoOx on the corrosion behavior of Ti-6Al-4V alloy coated via micro-arc oxidation coating. <i>Corrosion Science</i> , 2021, 192, 109764.	6.6	32
42	Plasma electrolytic oxidation of Ti-25Nb-xTa alloys in solution containing Ca and P ions. <i>Surface and Coatings Technology</i> , 2020, 395, 125916.	4.8	32
43	Anionic assisted incorporation of WO3 nanoparticles for enhanced electrochemical properties of AZ31 Mg alloy coated via plasma electrolytic oxidation. <i>Journal of Alloys and Compounds</i> , 2022, 916, 165445.	5.5	31
44	Poly(lactic acid)/low density polyethylene polymer blends: preparation and characterization. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012, 7, S310.	1.5	30
45	Electrochemical response of MoO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> oxide films via plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2017, 322, 163-173.	4.8	30
46	Effect of Wood Fibers on the Rheological and Mechanical Properties of Polystyrene/Wood Composites. <i>Journal of Wood Chemistry and Technology</i> , 2017, 37, 251-260.	1.7	25
47	Advantage of an in-situ reactive incorporation over direct particles incorporation of V <sub>2</sub> O <sub>5</sub> for a competitive plasma electrolysis coating. <i>Surface and Coatings Technology</i> , 2020, 399, 126200.	4.8	25
48	A Review on LDH-Smart Functionalization of Anodic Films of Mg Alloys. <i>Nanomaterials</i> , 2021, 11, 536.	4.1	25
49	Modification of a porous oxide layer formed on an Al-Zn-Mg alloy via plasma electrolytic oxidation and post treatment using oxalate ions. <i>RSC Advances</i> , 2016, 6, 107109-107113.	3.6	24
50	Fabrication of a Protective Hybrid Coating Composed of TiO <sub>2</sub> , MoO <sub>2</sub> , and SiO <sub>2</sub> by Plasma Electrolytic Oxidation of Titanium. <i>Metals</i> , 2021, 11, 1182.	2.3	23
51	A Review on Synthesis, Properties, and Applications of Polylactic Acid/Silica Composites. <i>Polymers</i> , 2021, 13, 3036.	4.5	23
52	On the compactness of the oxide layer induced by utilizing a porosification agent. <i>Applied Surface Science</i> , 2019, 473, 715-725.	6.1	22
53	Optimization of Surface Properties of Plasma Electrolytic Oxidation Coating by Organic Additives: A Review. <i>Coatings</i> , 2021, 11, 374.	2.6	22
54	Material properties of polyethylene/wood composites: A review of recent works. <i>Polymer Science - Series A</i> , 2015, 57, 689-703.	1.0	21

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55	Effect of starch on the corrosion behavior of Al-Mg-Si alloy processed by micro arc oxidation from an ecofriendly electrolyte system. <i>Bioelectrochemistry</i> , 2019, 128, 133-139.	4.6	21
56	Acceleration of Bone Formation and Adhesion Ability on Dental Implant Surface via Plasma Electrolytic Oxidation in a Solution Containing Bone Ions. <i>Metals</i> , 2021, 11, 106.	2.3	20
57	Preparation and Characterization of Binary and Ternary Blends with Poly(Lactic Acid), Polystyrene, and Acrylonitrile-Butadiene-Styrene. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2012, 03, 405-412.	0.5	20
58	Towards a compact coating formed on Al6061 alloy in phosphate based electrolyte via two-step PEO process and K <sub>2</sub> ZrF <sub>6</sub> additives. <i>Surface and Coatings Technology</i> , 2017, 328, 355-360.	4.8	19
59	A highly compact coating responsible for enhancing corrosion properties of Al-Mg-Si alloy. <i>Materials Letters</i> , 2017, 196, 316-319.	2.6	17
60	Surface Properties of Graphene Functionalized TiO <sub>2</sub> /nHA Hybrid Coatings Made on Ti6Al7Nb Alloys via Plasma Electrolytic Oxidation (PEO). <i>Molecules</i> , 2021, 26, 3903.	3.8	17
61	Preparation and studying properties of thermoplastic starch/acrylonitrile-butadiene-styrene blend. <i>International Journal of Plastics Technology</i> , 2012, 16, 39-49.	3.1	14
62	Optimization of defect-free protective layer considering the geometrical linearity of condensed phosphates. <i>Journal of Alloys and Compounds</i> , 2018, 752, 155-163.	5.5	14
63	Poly(Lactic Acid) Composites. <i>Materials</i> , 2019, 12, 3586.	2.9	14
64	Tailored alumina coatings for corrosion inhibition considering the synergism between phosphate ions and benzotriazole. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153566.	5.5	12
65	Microwave-assisted synthesis of NiTe <sub>2</sub> photocatalyst as a facile and scalable approach for energy-efficient photocatalysis and detoxification of harmful organic dyes. <i>Separation and Purification Technology</i> , 2022, 282, 120025.	7.9	12
66	Melt rheology of poly(vinylidene fluoride) (PVDF)/low density polyethylene (LDPE) blends. <i>Polymer Science - Series A</i> , 2015, 57, 233-238.	1.0	11
67	The Ti <sub>3.6</sub> Nb <sub>1.0</sub> Ta <sub>0.2</sub> Zr <sub>0.2</sub> coating on anodized aluminum by PVD: A potential candidate for short-time biomedical applications. <i>Vacuum</i> , 2021, 192, 110450.	3.5	11
68	Facile formation with HA/Sr-GO-based composite coatings via green hydrothermal treatment on $\beta$ -type TiNbTaZr alloys: Morphological and electrochemical insights. <i>Journal of Materials Research</i> , 2022, 37, 2512-2524.	2.6	11
69	On-Line Rheological Measurements and Mechanical Properties of Acrylonitrile-Butadiene-styrene/Corn Starch Composite. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2013, 62, 260-264.	3.4	10
70	Effect of acrylonitrile-butadiene-styrene on flow behavior and mechanical properties of polylactic acid/low density polyethylene blend. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014, 9, 349-353.	1.5	10
71	Rheological properties of ABS/wood composites. <i>European Journal of Wood and Wood Products</i> , 2015, 73, 701-703.	2.9	10
72	Hydration-dehydration behavior induced densification of porous plasma electrolysis coating. <i>Journal of Alloys and Compounds</i> , 2019, 798, 220-226.	5.5	10

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73	Slit die rheology of thermoplastic starch during extrusion process. International Journal of Plastics Technology, 2013, 17, 51-60.	3.1	9
74	Multi-Response Optimization of Surface Grinding Process Parameters of AISI 4140 Alloy Steel Using Response Surface Methodology and Desirability Function under Dry and Wet Conditions. Coatings, 2022, 12, 104.	2.6	9
75	Preparation and studying properties of polybutene-1/thermoplastic starch blends. Journal of Applied Polymer Science, 2012, 124, 3092-3098.	2.6	8
76	Processing of Ti/(HA+ZrO <sub>2</sub> ) biocomposite and 50% porous hybrid scaffolds with low Young's modulus by powder metallurgy: Comparing of structural, mechanical, and corrosion properties. Materials Today Communications, 2021, 29, 102813.	1.9	7
77	Development of Antimicrobial Cotton Fabric Impregnating AgNPs Utilizing Contemporary Practice. Coatings, 2021, 11, 1413.	2.6	7
78	Microstructure and plastic anisotropy of fine grained AZ31 magnesium alloy fabricated by differential speed rolling at 473 and 573 K. Materials Research Innovations, 2015, 19, S5-477-S5-480.	2.3	4
79	Enhancement of Mixing Performance of Two-Layer Crossing Micromixer through Surrogate-Based Optimization. Micromachines, 2021, 12, 211.	2.9	4
80	Macro and micro thermal investigation of nanoarchitectonics-based coatings on cotton fabric using new quaternized starch. RSC Advances, 2022, 12, 2888-2900.	3.6	4
81	Improving the Chemical Stability of Al Alloy through the Densification of the Alumina Layer Assisted by SiF <sub>6</sub> <sup>2-</sup> Anion Hydrolysis. Nanomaterials, 2022, 12, 1354.	4.1	4
82	Capillary Flow Behavior of Polycarbonate (PC)/Acrylonitrile-Butadiene-Styrene (ABS) Blends. Journal of Composites and Biodegradable Polymers, 2016, 4, 11-15.	0.3	2
83	Biodegradable Polymers: Blends and Composites. , 0, , 625-637.		0
84	Polylactic Acid: Properties and Applications. , 0, , 6449-6459.		0