

# Abdel Salam Hamdy Makhlouf

## List of Publications by Year in Descending Order

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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.

88  
papers

3,038  
citations

31  
h-index

52  
g-index

95  
ext. papers

3,402  
ext. citations

4.7  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
88	Nanocomposites Materials and Their Applications: Current and Future Trends. <i>Engineering Materials</i> , <b>2022</b> , 3-14	0.4	
87	Fundamentals of Waste Recycling for Nanomaterial Manufacturing. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , <b>2021</b> , 3-24	0.4	11
86	Hydroxyquinoline/nano-graphene oxide composite coating of self-healing functionality on treated Mg alloys AZ31. <i>Surface and Coatings Technology</i> , <b>2020</b> , 385, 125395	4.4	9
85	Taguchi L9 (34) orthogonal array study based on methylene blue removal by single-walled carbon nanotubes-amine: Adsorption optimization using the experimental design method, kinetics, equilibrium and thermodynamics. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 298, 112001	6	47
84	Magnesium-particle/polyurethane composite layer coating on titanium surfaces for orthopedic applications. <i>European Polymer Journal</i> , <b>2019</b> , 112, 555-568	5.2	10
83	MWCNTs-Fe <sub>3</sub> O <sub>4</sub> nanocomposite for Hg(II) high adsorption efficiency. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 258, 345-353	6	104
82	The role of nanomaterials as effective adsorbents and their applications in wastewater treatment. <i>Journal of Nanostructure in Chemistry</i> , <b>2017</b> , 7, 1-14	7.6	299
81	Facile route synthesis of novel graphene oxide-β-cyclodextrin nanocomposite and its application as adsorbent for removal of toxic bisphenol A from the aqueous phase. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 237, 466-472	6	87
80	Fabrication of highly porous biodegradable biomimetic nanocomposite as advanced bone tissue scaffold. <i>Arabian Journal of Chemistry</i> , <b>2017</b> , 10, 240-252	5.9	22
79	Efficient method for determination of methylene blue dye in water samples based on a combined dispersive solid phase and cloud point extraction using Cu(OH) nanoflakes: central composite design optimization. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 1079-1092	4.4	18
78	Biocorrosion behavior of biodegradable nanocomposite fibers coated layer-by-layer on AM50 magnesium implant. <i>Materials Science and Engineering C</i> , <b>2016</b> , 58, 1232-41	8.3	31
77	Study on the removal of heavy metal ions from industry waste by carbon nanotubes: Effect of the surface modification: a review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2016</b> , 46, 93-118	11.1	195
76	Novel, facile, and fast technique for synthesis of AgCl nanorods loaded on activated carbon for removal of methylene blue dye. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 103, 212-226	5.5	20
75	Fabrication of novel high performance ductile poly(lactic acid) nanofiber scaffold coated with poly(vinyl alcohol) for tissue engineering applications. <i>Materials Science and Engineering C</i> , <b>2016</b> , 60, 143-150	8.3	68
74	Efficient removal of toxic bromothymol blue and methylene blue from wastewater by polyvinyl alcohol. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 218, 191-197	6	109
73	Stimuli-responsive Polyelectrolyte Multilayers for fabrication of self-healing coatings A review. <i>Surface and Coatings Technology</i> , <b>2016</b> , 303, 406-424	4.4	77
72	Removal of linear alkyl benzene sulfonate from aqueous solutions by functionalized multi-walled carbon nanotubes. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 213, 339-344	6	22

71	Smart Stimuli-Responsive Nano-sized Hosts for Drug Delivery <b>2016</b> , 1-26		10
70	Industrial Applications for Intelligent Polymers and Coatings <b>2016</b> ,		23
69	Smart Textile Supercapacitors Coated with Conducting Polymers for Energy Storage Applications <b>2016</b> , 437-477		3
68	Intelligent Stannate-Based Coatings of Self-Healing Functionality for Magnesium Alloys <b>2015</b> , 537-555		8
67	A facile manufacturing of Ag/SiO <sub>2</sub> nanofibers and nanoparticles composites via a simple hydrothermal plasma method. <i>Ceramics International</i> , <b>2015</b> , 41, 12447-12452	5.1	6
66	Recent Advances in Nanocomposite Coatings for Corrosion Protection Applications <b>2015</b> , 515-549		16
65	Fabrication of durable high performance hybrid nanofiber scaffolds for bone tissue regeneration using a novel, simple in situ deposition approach of polyvinyl alcohol on electrospun nylon 6 nanofibers. <i>Materials Letters</i> , <b>2015</b> , 147, 25-28	3.3	24
64	A simple single-step permanganate surface treatment for rare-earth containing magnesium alloys. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2015</b> , 51, 613-619	0.9	2
63	Comparative study of micro-arc oxidation treatment for AM, AZ and MZ magnesium alloys. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2015</b> , 51, 620-629	0.9	8
62	Novel, Facile, Single-Step Technique of Polymer/TiO <sub>2</sub> Nanofiber Composites Membrane for Photodegradation of Methylene Blue. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 13329-41	9.5	63
61	A Novel Approach for Facile Synthesis of Biocompatible PVA-Coated PLA Nanofibers as Composite Membrane Scaffolds for Enhanced Osteoblast Proliferation <b>2015</b> , 87-113		3
60	History of High-Performance Paints and Coatings of Unique Characteristics <b>2015</b> , 321-332		
59	Effect of Nano-Additives (Al <sub>2</sub> O <sub>3</sub> and NaF) on the Performance of Ceramic Coatings Formed by Microarc Oxidation on Magnesium Alloys <b>2015</b> , 389-401		1
58	A comparative study on the basis of adsorption capacity between CNTs and activated carbon as adsorbents for removal of noxious synthetic dyes: a review. <i>Journal of Nanostructure in Chemistry</i> , <b>2015</b> , 5, 227-236	7.6	143
57	A novel simple one-step air jet spinning approach for deposition of poly(vinyl acetate)/hydroxyapatite composite nanofibers on Ti implants. <i>Materials Science and Engineering C</i> , <b>2015</b> , 49, 681-690	8.3	37
56	A Green, Simple Chemical Route for the Synthesis of Pure Nanocalcite Crystals. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 573-580	3.5	34
55	Nanoparticles as Adsorbent; A Positive Approach for Removal of Noxious Metal Ions: A Review. <i>Science Technology and Development</i> , <b>2015</b> , 34, 195-214		100
54	In vitro bioactivity of implantable Ti materials coated with PVAc membrane layer. <i>Materials Letters</i> , <b>2014</b> , 126, 267-270	3.3	17

53	Novel bone regeneration matrix for next-generation biomaterial using a vertical array of carbonated hydroxyapatite nanoplates coated onto electrospun nylon 6 nanofibers. <i>Materials Letters</i> , <b>2014</b> , 137, 378-381	3.3	19
52	Protective coatings for automotive, aerospace and military applications: current prospects and future trends <b>2014</b> , 121-131		2
51	Facile preparation of titanium dioxide micro/nanofibers and tubular structures by air jet spinning. <i>Ceramics International</i> , <b>2014</b> , 40, 15403-15409	5.1	15
50	Influence of hot forging and alloying with Al on the electrochemical behavior and mechanical properties of austenitic stainless steel. <i>Materials &amp; Design</i> , <b>2014</b> , 57, 538-545		7
49	Recent advances in polyaniline (PANI)-based organic coatings for corrosion protection <b>2014</b> , 459-486		13
48	Preparation and characterization of vertically arrayed hydroxyapatite nanoplates on electrospun nanofibers for bone tissue engineering. <i>Chemical Engineering Journal</i> , <b>2014</b> , 254, 612-622	14.7	48
47	Techniques for synthesizing and applying smart coatings for material protection <b>2014</b> , 56-74		11
46	Smart stannate-based self-healing coatings for corrosion protection of magnesium alloys <b>2014</b> , 275-286		
45	Effect of changing the silica coating pH on the corrosion characteristics of A6092/SiC/17.5p aluminum metal matrix composite in chloride media. <i>Electrochimica Acta</i> , <b>2013</b> , 107, 518-524	6.7	3
44	Eco-friendly, cost-effective silica-based protective coating for an A6092/SiC/17.5p aluminum metal matrix composite. <i>Electrochimica Acta</i> , <b>2013</b> , 89, 749-755	6.7	12
43	Novel smart stannate based coatings of self-healing functionality for AZ91D magnesium alloy. <i>Electrochimica Acta</i> , <b>2013</b> , 97, 296-303	6.7	35
42	Deposition, characterization and electrochemical properties of silica-phosphate composite coatings formed over A6092/SiC/17.5p aluminum metal matrix composite. <i>Electrochimica Acta</i> , <b>2013</b> , 109, 168-172	6.7	3
41	Corrosion mitigation of rare-earth metals containing magnesium EV31A-T6 alloy via chrome-free conversion coating treatment. <i>Electrochimica Acta</i> , <b>2013</b> , 108, 852-859	6.7	23
40	Electrochemical behavior of a discontinuously A6092/SiC/17.5p metal matrix composite in chloride containing solution. <i>Electrochimica Acta</i> , <b>2013</b> , 88, 129-134	6.7	10
39	The effect of grain refining and phosphides formation on the performance of advanced nanocomposite and ternary alloy coatings on steel. <i>Materials Letters</i> , <b>2012</b> , 80, 191-194	3.3	12
38	Vanadia-based coatings of self-repairing functionality for advanced magnesium Elektron ZE41 MgZn rare earth alloy. <i>Surface and Coatings Technology</i> , <b>2012</b> , 206, 3686-3692	4.4	45
37	The effect of alkaline etching time on the anticorrosion performance of vanadia film formed on high strength AA2024 in chloride media. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 3784-3792	4.3	10
36	Intelligent self-healing corrosion resistant vanadia coating for AA2024. <i>Thin Solid Films</i> , <b>2011</b> , 520, 1668-1678		51

35	Smart self-healing anti-corrosion vanadia coating for magnesium alloys. <i>Progress in Organic Coatings</i> , <b>2011</b> , 72, 387-393	4.8	58
34	Corrosion behavior of nitride layer obtained on AISI 316L stainless steel via simple direct nitridation route at low temperature. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 126, 507-514	4.4	30
33	Electrochemical studies on the film formed by direct nitridation of AA2024 in a KNO <sub>3</sub> salt bath at low temperature. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 127, 253-258	4.4	3
32	Electrochemical behavior of diamond-like-carbon coatings deposited on AlTiC (Al <sub>2</sub> O <sub>3</sub> + TiC) ceramic composite substrate in HCl solution. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 1554-1562	6.7	26
31	Assessment of a one-step intelligent self-healing vanadia protective coatings for magnesium alloys in corrosive media. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 2493-2502	6.7	60
30	Nanocoatings and ultra-thin films <b>2011</b> ,		27
29	Chrome-free zirconia-based protective coatings for magnesium alloys. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 2834-2840	4.4	45
28	Corrosion Protection Performance via Nano-Coatings Technologies. <i>Recent Patents on Materials Science</i> , <b>2010</b> , 3, 258-267	0.3	9
27	Synthesis of dysprosium and cerium nitrides by a mechanically induced gas/solid reaction. <i>Journal of Nuclear Materials</i> , <b>2009</b> , 392, 121-124	3.3	8
26	Novel approaches in designing high performance nano and nano-composite coatings for industrial applications. <i>International Journal of Nanomanufacturing</i> , <b>2009</b> , 4, 235	0.7	8
25	Synthesis of uranium nitride by a mechanically induced gas/solid reaction. <i>Journal of Nuclear Materials</i> , <b>2008</b> , 381, 309-311	3.3	16
24	Electroless deposition of ternary Ni <sub>3</sub> P alloy coatings containing tungsten or nano-scattered alumina composite on steel. <i>Journal of Applied Electrochemistry</i> , <b>2008</b> , 38, 385-394	2.6	32
23	The effect of surface modification and stannate concentration on the corrosion protection performance of magnesium alloys. <i>Surface and Coatings Technology</i> , <b>2008</b> , 203, 240-249	4.4	38
22	Fluoropolymer coatings for corrosion protection in highly aggressive environments <b>2008</b> , 212-224		
21	Corrosion behavior of electroless Ni <sub>3</sub> P alloy coatings containing tungsten or nano-scattered alumina composite in 3.5% NaCl solution. <i>Surface and Coatings Technology</i> , <b>2007</b> , 202, 162-171	4.4	70
20	Novel anti-corrosion nano-sized vanadia-based thin films prepared by sol-gel method for aluminum alloys. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 181, 76-80	5.3	41
19	The corrosion behavior of niobium bearing cold deformed austenitic stainless steels in 3.5% NaCl solution. <i>Materials Letters</i> , <b>2007</b> , 61, 2827-2832	3.3	29
18	Electrochemical impedance studies of sol-gel based ceramic coatings systems in 3.5% NaCl solution. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 3310-3316	6.7	52

17	Evaluation of corrosion and erosion-corrosion resistances of mild steel in sulfide-containing NaCl aerated solutions. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 7068-7074	6.7	35
16	Alkaline-Based Surface Modification Prior to Ceramic-Based Cerate Conversion Coatings for Magnesium AZ91D. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, C21		24
15	Advanced nano-particles anti-corrosion ceria based sol gel coatings for aluminum alloys. <i>Materials Letters</i> , <b>2006</b> , 60, 2633-2637	3.3	89
14	Enhancing corrosion resistance of aluminum composites in 3.5% NaCl using pigmented epoxy fluoropolymer. <i>Progress in Organic Coatings</i> , <b>2006</b> , 55, 218-224	4.8	10
13	A clean low cost anti-corrosion molybdate based nano-particles coating for aluminum alloys. <i>Progress in Organic Coatings</i> , <b>2006</b> , 56, 146-150	4.8	31
12	Corrosion protection performance of nano-particles thin-films containing vanadium ions formed on aluminium alloys. <i>Anti-Corrosion Methods and Materials</i> , <b>2006</b> , 53, 240-245	0.8	12
11	Enhancing the corrosion resistance of magnesium alloy AZ91D in 3.5 per cent NaCl solution by cerate conversion coatings. <i>Anti-Corrosion Methods and Materials</i> , <b>2006</b> , 53, 367-373	0.8	19
10	Corrosion protection of aluminum composites by silicate/cerate conversion coating. <i>Surface and Coatings Technology</i> , <b>2006</b> , 200, 3786-3792	4.4	59
9	Growth and characterization of anodic films on aluminum alloys in 5-sulfosalicylic acid solution. <i>Surface and Coatings Technology</i> , <b>2006</b> , 200, 5071-5076	4.4	16
8	Environmentally compliant silica conversion coatings prepared by sol-gel method for aluminum alloys. <i>Surface and Coatings Technology</i> , <b>2006</b> , 201, 401-407	4.4	61
7	Corrosion protection of AA6061 T6-10 % Al <sub>2</sub> O <sub>3</sub> composite by molybdate conversion coatings. <i>Journal of Applied Electrochemistry</i> , <b>2005</b> , 35, 467-472	2.6	23
6	Effect of surface preparation prior to cerium pre-treatment on the corrosion protection performance of aluminum composites. <i>Journal of Applied Electrochemistry</i> , <b>2005</b> , 35, 473-478	2.6	41
5	Corrosion protection of AA6061 T6 by fluoropolymer coatings in NaCl solution. <i>Surface and Coatings Technology</i> , <b>2002</b> , 155, 176-183	4.4	16
4	Chrome-free pretreatment for aluminium composites. <i>Surface and Interface Analysis</i> , <b>2002</b> , 34, 160-163	1.5	12
3	Improving the corrosion protection of AA6061 T6-10% Al <sub>2</sub> O <sub>3</sub> using new surface pre-treatments prior to fluoropolymer coatings. <i>Surface and Coatings Technology</i> , <b>2002</b> , 155, 184-189	4.4	22
2	Protective Silica-Based Coating for Aluminum 6092/SiCp Metal Matrix Composite in Chloride Media	229-244	
1	Electrochemical Behavior of Ti-Ni-Cu Shape Memory Alloy Ribbons Used for the Fabrication of Sensors and Actuators	1007-1019	1