

# Abdel Salam Hamdy Makhlouf

## List of Publications by Year in descending order

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86  
papers

3,863  
citations

145106

33  
h-index

150775

59  
g-index

95  
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95  
docs citations

95  
times ranked

4519  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanocomposites Materials and Their Applications: Current and Future Trends. <i>Engineering Materials</i> , 2022, , 3-14.	0.3	1
2	Fundamentals of Waste Recycling for Nanomaterial Manufacturing. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2021, , 3-24.	1.4	15
3	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> , 2020, 298, 112001.	2.3	83
4	Hydroxyquinoline/nano-graphene oxide composite coating of self-healing functionality on treated Mg alloys AZ31. <i>Surface and Coatings Technology</i> , 2020, 385, 125395.	2.2	20
5	Magnesium-particle/polyurethane composite layer coating on titanium surfaces for orthopedic applications. <i>European Polymer Journal</i> , 2019, 112, 555-568.	2.6	16
6	MWCNTs-Fe <sub>3</sub> O <sub>4</sub> nanocomposite for Hg(II) high adsorption efficiency. <i>Journal of Molecular Liquids</i> , 2018, 258, 345-353.	2.3	136
7	The role of nanomaterials as effective adsorbents and their applications in wastewater treatment. <i>Journal of Nanostructure in Chemistry</i> , 2017, 7, 1-14.	5.3	444
8	Facile route synthesis of novel graphene oxide- $\beta$ -cyclodextrin nanocomposite and its application as adsorbent for removal of toxic bisphenol A from the aqueous phase. <i>Journal of Molecular Liquids</i> , 2017, 237, 466-472.	2.3	112
9	Fabrication of highly porous biodegradable biomimetic nanocomposite as advanced bone tissue scaffold. <i>Arabian Journal of Chemistry</i> , 2017, 10, 240-252.	2.3	30
10	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) <sub>2</sub> nanoflakes: central composite design optimization. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1079-1092.	1.9	26
11	Smart Stimuli-Responsive Nano-sized Hosts for Drug Delivery. , 2016, , 1-26.		14
12	Industrial Applications for Intelligent Polymers and Coatings. , 2016, , .		36
13	Smart Textile Supercapacitors Coated with Conducting Polymers for Energy Storage Applications. , 2016, , 437-477.		5
14	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> , 2016, 103, 212-226.	2.7	23
15	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> , 2016, 60, 143-150.	3.8	90
16	Efficient removal of toxic bromothymol blue and methylene blue from wastewater by polyvinyl alcohol. <i>Journal of Molecular Liquids</i> , 2016, 218, 191-197.	2.3	141
17	Stimuli-responsive Polyelectrolyte Multilayers for fabrication of self-healing coatings " A review. <i>Surface and Coatings Technology</i> , 2016, 303, 406-424.	2.2	91
18	Removal of linear alkyl benzene sulfonate from aqueous solutions by functionalized multi-walled carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2016, 213, 339-344.	2.3	25

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19	Biocorrosion behavior of biodegradable nanocomposite fibers coated layer-by-layer on AM50 magnesium implant. <i>Materials Science and Engineering C</i> , 2016, 58, 1232-1241.	3.8	43
20	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> , 2016, 46, 93-118.	6.6	262
21	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> , 2015, 7, 13329-13341.	4.0	80
22	A Novel Approach for Facile Synthesis of Biocompatible PVA-Coated PLA Nanofibers as Composite Membrane Scaffolds for Enhanced Osteoblast Proliferation. , 2015, , 87-113.		3
23	History of High-Performance Paints and Coatings of Unique Characteristics. , 2015, , 321-332.		0
24	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. , 2015, , 389-401.		2
25	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> , 2015, 5, 227-236.	5.3	177
26	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> , 2015, 49, 681-690.	3.8	43
27	A Green, Simple Chemical Route for the Synthesis of Pure Nanocalcite Crystals. <i>Crystal Growth and Design</i> , 2015, 15, 573-580.	1.4	45
28	Intelligent Stannate-Based Coatings of Self-Healing Functionality for Magnesium Alloys. , 2015, , 537-555.		13
29	A facile manufacturing of Ag/SiO <sub>2</sub> nanofibers and nanoparticles composites via a simple hydrothermal plasma method. <i>Ceramics International</i> , 2015, 41, 12447-12452.	2.3	6
30	Recent Advances in Nanocomposite Coatings for Corrosion Protection Applications. , 2015, , 515-549.		25
31	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> , 2015, 147, 25-28.	1.3	30
32	A simple single-step permanganate surface treatment for rare-earth containing magnesium alloys. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015, 51, 613-619.	0.3	2
33	Comparative study of micro-arc oxidation treatment for AM, AZ and MZ magnesium alloys. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015, 51, 620-629.	0.3	8
34	Nanoparticles as Adsorbent; A Positive Approach for Removal of Noxious Metal Ions: A Review. <i>Science Technology and Development</i> , 2015, 34, 195-214.	0.3	127
35	Techniques for synthesizing and applying smart coatings for material protection. , 2014, , 56-74.		11
36	Smart stannate-based self-healing coatings for corrosion protection of magnesium alloys. , 2014, , 275-286.		0

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37	In vitro bioactivity of implantable Ti materials coated with PVAc membrane layer. <i>Materials Letters</i> , 2014, 126, 267-270.	1.3	18
38	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> , 2014, 137, 378-381.	1.3	24
39	Protective coatings for automotive, aerospace and military applications: current prospects and future trends. , 2014, , 121-131.		4
40	Facile preparation of titanium dioxide micro/nanofibers and tubular structures by air jet spinning. <i>Ceramics International</i> , 2014, 40, 15403-15409.	2.3	16
41	Influence of hot forging and alloying with Al on the electrochemical behavior and mechanical properties of austenitic stainless steel. <i>Materials &amp; Design</i> , 2014, 57, 538-545.	5.1	10
42	Recent advances in polyaniline (PANI)-based organic coatings for corrosion protection. , 2014, , 459-486.		17
43	Preparation and characterization of vertically arrayed hydroxyapatite nanoplates on electrospun nanofibers for bone tissue engineering. <i>Chemical Engineering Journal</i> , 2014, 254, 612-622.	6.6	55
44	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> , 2013, 107, 518-524.	2.6	4
45	Eco-friendly, cost-effective silica-based protective coating for an A6092/SiC/17.5p aluminum metal matrix composite. <i>Electrochimica Acta</i> , 2013, 89, 749-755.	2.6	14
46	Novel smart stannate based coatings of self-healing functionality for AZ91D magnesium alloy. <i>Electrochimica Acta</i> , 2013, 97, 296-303.	2.6	48
47	Deposition, characterization and electrochemical properties of silica-phosphate composite coatings formed over A6092/SiC/17.5p aluminum metal matrix composite. <i>Electrochimica Acta</i> , 2013, 109, 168-172.	2.6	3
48	Corrosion mitigation of rare-earth metals containing magnesium EV31A-T6 alloy via chrome-free conversion coating treatment. <i>Electrochimica Acta</i> , 2013, 108, 852-859.	2.6	28
49	Electrochemical behavior of a discontinuously A6092/SiC/17.5p metal matrix composite in chloride containing solution. <i>Electrochimica Acta</i> , 2013, 88, 129-134.	2.6	13
50	The effect of grain refining and phosphides formation on the performance of advanced nanocomposite and ternary alloy coatings on steel. <i>Materials Letters</i> , 2012, 80, 191-194.	1.3	13
51	Vanadia-based coatings of self-repairing functionality for advanced magnesium Elektron ZE41 Mg-Zn-rare earth alloy. <i>Surface and Coatings Technology</i> , 2012, 206, 3686-3692.	2.2	57
52	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> , 2012, 47, 3784-3792.	1.7	14
53	Intelligent self-healing corrosion resistant vanadia coating for AA2024. <i>Thin Solid Films</i> , 2011, 520, 1668-1678.	0.8	61
54	Smart self-healing anti-corrosion vanadia coating for magnesium alloys. <i>Progress in Organic Coatings</i> , 2011, 72, 387-393.	1.9	74

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55	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> , 2011, 126, 507-514.	2.0	36
56	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> , 2011, 127, 253-258.	2.0	3
57	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> , 2011, 56, 1554-1562.	2.6	36
58	Assessment of a one-step intelligent self-healing vanadia protective coatings for magnesium alloys in corrosive media. <i>Electrochimica Acta</i> , 2011, 56, 2493-2502.	2.6	75
59	Nanocoatings and ultra-thin films. , 2011, , .		40
60	Chrome-free zirconia-based protective coatings for magnesium alloys. <i>Surface and Coatings Technology</i> , 2010, 204, 2834-2840.	2.2	55
61	Corrosion Protection Performance via Nano-Coatings Technologies. <i>Recent Patents on Materials Science</i> , 2010, 3, 258-267.	0.5	12
62	Synthesis of dysprosium and cerium nitrides by a mechanically induced gasâ€“solid reaction. <i>Journal of Nuclear Materials</i> , 2009, 392, 121-124.	1.3	9
63	Novel approaches in designing high performance nano and nano-composite coatings for industrial applications. <i>International Journal of Nanomanufacturing</i> , 2009, 4, 235.	0.3	8
64	Synthesis of uranium nitride by a mechanically induced gasâ€“solid reaction. <i>Journal of Nuclear Materials</i> , 2008, 381, 309-311.	1.3	20
65	Electroless deposition of ternary Niâ€“P alloy coatings containing tungsten or nano-scattered alumina composite on steel. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 385-394.	1.5	36
66	The effect of surface modification and stannate concentration on the corrosion protection performance of magnesium alloys. <i>Surface and Coatings Technology</i> , 2008, 203, 240-249.	2.2	44
67	Fluoropolymer coatings for corrosion protection in highly aggressive environments. , 2008, , 212-224.		0
68	Alkaline-Based Surface Modification Prior to Ceramic-Based Cerate Conversion Coatings for Magnesium AZ91D. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, C21.	2.2	28
69	Corrosion behavior of electroless Niâ€“P alloy coatings containing tungsten or nano-scattered alumina composite in 3.5% NaCl solution. <i>Surface and Coatings Technology</i> , 2007, 202, 162-171.	2.2	78
70	Novel anti-corrosion nano-sized vanadia-based thin films prepared by solâ€“gel method for aluminum alloys. <i>Journal of Materials Processing Technology</i> , 2007, 181, 76-80.	3.1	50
71	The corrosion behavior of niobium bearing cold deformed austenitic stainless steels in 3.5% NaCl solution. <i>Materials Letters</i> , 2007, 61, 2827-2832.	1.3	38
72	Electrochemical impedance studies of solâ€“gel based ceramic coatings systems in 3.5% NaCl solution. <i>Electrochimica Acta</i> , 2007, 52, 3310-3316.	2.6	56

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73	Evaluation of corrosion and erosion—corrosion resistances of mild steel in sulfide-containing NaCl aerated solutions. <i>Electrochimica Acta</i> , 2007, 52, 7068-7074.	2.6	43
74	Corrosion protection performance of nano—particles thin—films containing vanadium ions formed on aluminium alloys. <i>Anti-Corrosion Methods and Materials</i> , 2006, 53, 240-245.	0.6	16
75	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> , 2006, 53, 367-373.	0.6	23
76	Corrosion protection of aluminum composites by silicate/cerate conversion coating. <i>Surface and Coatings Technology</i> , 2006, 200, 3786-3792.	2.2	63
77	Growth and characterization of anodic films on aluminum alloys in 5-sulfosalicylic acid solution. <i>Surface and Coatings Technology</i> , 2006, 200, 5071-5076.	2.2	20
78	Environmentally compliant silica conversion coatings prepared by sol—gel method for aluminum alloys. <i>Surface and Coatings Technology</i> , 2006, 201, 401-407.	2.2	68
79	Advanced nano-particles anti-corrosion ceria based sol gel coatings for aluminum alloys. <i>Materials Letters</i> , 2006, 60, 2633-2637.	1.3	98
80	Enhancing corrosion resistance of aluminum composites in 3.5% NaCl using pigmented epoxy fluoropolymer. <i>Progress in Organic Coatings</i> , 2006, 55, 218-224.	1.9	11
81	A clean low cost anti-corrosion molybdate based nano-particles coating for aluminum alloys. <i>Progress in Organic Coatings</i> , 2006, 56, 146-150.	1.9	32
82	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> , 2005, 35, 467-472.	1.5	26
83	Effect of surface preparation prior to cerium pre-treatment on the corrosion protection performance of aluminum composites. <i>Journal of Applied Electrochemistry</i> , 2005, 35, 473-478.	1.5	45
84	Corrosion protection of AA6061 T6 by fluoropolymer coatings in NaCl solution. <i>Surface and Coatings Technology</i> , 2002, 155, 176-183.	2.2	21
85	Chrome-free pretreatment for aluminium composites. <i>Surface and Interface Analysis</i> , 2002, 34, 160-163.	0.8	12
86	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> , 2002, 155, 184-189.	2.2	24