

Essam A Shaaban

List of Publications by Year in descending order

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33
papers

1,135
citations

430874

18
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

1085
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of bionanocomposite materials and its use in coating of Ras cheese. Food Chemistry, 2019, 270, 467-475.	8.2	95
2	Effect of zinc oxide nanoparticles on the growth, genomic DNA, production and the quality of common dry bean (<i>Phaseolus vulgaris</i>). Biocatalysis and Agricultural Biotechnology, 2019, 18, 101083.	3.1	95
3	A novel electromagnetic biodegradable nanocomposite based on cellulose, polyaniline, and cobalt ferrite nanoparticles. Carbohydrate Polymers, 2019, 216, 54-62.	10.2	70
4	Green Synthesis of Nanofertilizers and Their Application as a Foliar for <i>Cucurbita pepo</i> L. Journal of Nanomaterials, 2019, 2019, 1-11.	2.7	69
5	Morphological, electrical & antibacterial properties of trilayered Cs/PAA/PPy bionanocomposites hydrogel based on Fe ₃ O ₄ -NPs. Carbohydrate Polymers, 2018, 196, 483-493.	10.2	64
6	Preparation and characterization of chitosan/polyacrylic acid/copper nanocomposites and their impact on onion production. International Journal of Biological Macromolecules, 2019, 123, 856-865.	7.5	62
7	Conducting chitosan/hydroxyethyl cellulose/polyaniline bionanocomposites hydrogel based on graphene oxide doped with Ag-NPs. International Journal of Biological Macromolecules, 2021, 167, 1435-1444.	7.5	57
8	Green, economic, and partially biodegradable wood plastic composites via enzymatic surface modification of lignocellulosic fibers. Heliyon, 2019, 5, e01332.	3.2	56
9	Biological studies and electrical conductivity of paper sheet based on PANI/PS/Ag-NPs nanocomposite. Carbohydrate Polymers, 2016, 147, 333-343.	10.2	55
10	Template-free microwave-assisted hydrothermal synthesis of manganese zinc ferrite as a nanofertilizer for squash plant (<i>Cucurbita pepo</i> L). Heliyon, 2020, 6, e03596.	3.2	54
11	Biodegradable grafting cellulose/clay composites for metal ions removal. International Journal of Biological Macromolecules, 2018, 118, 2256-2264.	7.5	46
12	Development of long-persistent photoluminescent epoxy resin immobilized with europium (II)-doped strontium aluminate. Luminescence, 2020, 35, 478-485.	2.9	45
13	Applications of nanotechnology on vegetable crops. Chemosphere, 2021, 266, 129026.	8.2	39
14	Rational design and electrical study of conducting bionanocomposites hydrogel based on chitosan and silver nanoparticles. International Journal of Biological Macromolecules, 2019, 140, 886-894.	7.5	38
15	Synthesis of an eco-friendly nanocomposite fertilizer for common bean based on carbon nanoparticles from agricultural waste biochar. Pedosphere, 2021, 31, 923-933.	4.0	38
16	Grafted TEMPO-oxidized cellulose nanofiber embedded with modified magnetite for effective adsorption of lead ions. International Journal of Biological Macromolecules, 2021, 167, 1091-1101.	7.5	36
17	Synthesis and characterization of polyaniline/tosylcellulose stearate composites as promising semiconducting materials. Synthetic Metals, 2018, 236, 44-53.	3.9	30
18	Conducting hydrogel based on chitosan, polypyrrole and magnetite nanoparticles: a broadband dielectric spectroscopy study. Polymer Bulletin, 2019, 76, 3175-3194.	3.3	27

#	ARTICLE	IF	CITATIONS
19	New trend to use biochar as foliar application for wheat plants (<i>Triticum Aestivum</i>). Journal of Plant Nutrition, 2019, 42, 1180-1191.	1.9	25
20	The influence of MoO ₃ -NPs on agro-morphological criteria, genomic stability of DNA, biochemical assay, and production of common dry bean (<i>Phaseolus vulgaris</i> L.). Plant Physiology and Biochemistry, 2020, 151, 77-87.	5.8	22
21	Foliar spraying of MnO ₂ -NPs and its effect on vegetative growth, production, genomic stability, and chemical quality of the common dry bean. Arab Journal of Basic and Applied Sciences, 2022, 29, 26-39.	2.1	18
22	Development of polymer composites and encapsulation technology for slow-release fertilizers. Reviews in Chemical Engineering, 2022, 38, 603-616.	4.4	17
23	Biochar from waste agriculture as reinforcement filler for styrene/butadiene rubber. Polymer Composites, 2022, 43, 1295-1304.	4.6	17
24	Polystyrene@montmorillonite core-shell particles via Pickering emulsion polymerization and their use as reinforcing additives for polypropylene and ethylene vinyl acetate. Polymer Engineering and Science, 2015, 55, 1546-1552.	3.1	11
25	Polypyrrole-coated latex particles as core/shell composites for antistatic coatings and energy storage applications. Journal of Coatings Technology Research, 2019, 16, 745-759.	2.5	10
26	Development and evaluation of antimicrobial LDPE/TiO ₂ nanocomposites for food packaging applications. Polymer Bulletin, 2023, 80, 5417-5431.	3.3	10
27	Pickering Emulsion Polymerization of Styrene using Nano-SiO ₂ and Subsequent Use of the Produced Core-shell Structures as Fillers for Ethylene Vinyl Acetate Copolymer and Polypropylene. Polymer-Plastics Technology and Engineering, 2016, 55, 1124-1130.	1.9	5
28	Molecular imprinted polymer for tramadol: Absorption and drug release studies. Polymer Engineering and Science, 2022, 62, 883-900.	3.1	5
29	A morphological and mechanical analysis of composites from modified bagasse fibers and recycled polyvinyl chloride. Polymer Composites, 2022, 43, 2878-2887.	4.6	5
30	The effect of exposure to MoO ₃ -NP and common bean fertilized by MoO ₃ -NPs on biochemical, hematological, and histopathological parameters in rats. Scientific Reports, 2022, 12, .	3.3	5
31	Impact of nano-zinc-oxide as an alternative source of zinc in date palm culture media. Plant Cell, Tissue and Organ Culture, 2022, 150, 73-84.	2.3	3
32	Evaluation of acute oral toxicity of zinc oxide nanoparticles in rats. Egyptian Journal of Chemistry, 2021, .	0.2	1
33	Compatibility of Polymer/Fiber to Enhance the Wood Plastic Composite Properties and their Applications. Egyptian Journal of Chemistry, 2021, .	0.2	0