

# Alaa Fahmy

## List of Publications by Year in descending order

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48  
papers

774  
citations

430874

18  
h-index

610901

24  
g-index

48  
all docs

48  
docs citations

48  
times ranked

638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of Plasma-Deposited Poly(acrylic acid) Films. <i>Plasma Processes and Polymers</i> , 2011, 8, 147-159.	3.0	55
2	Thermo- and pH-sensitive hydrogel membranes composed of poly(N-isopropylacrylamide)-hyaluronan for biomedical applications: Influence of hyaluronan incorporation on the membrane properties. <i>International Journal of Biological Macromolecules</i> , 2018, 106, 158-167.	7.5	37
3	Modeling and optimizing Acid Orange 142 degradation in aqueous solution by non-thermal plasma. <i>Chemosphere</i> , 2018, 210, 102-109.	8.2	35
4	Ultra-Thin Films of Poly(acrylic acid)/Silver Nanocomposite Coatings for Antimicrobial Applications. <i>Journal of Spectroscopy</i> , 2016, 2016, 1-11.	1.3	33
5	Synergistic Effect between Natural Honey and 0.1 M KI as Green Corrosion Inhibitor for Steel in Acid Medium. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019, 233, 627-649.	2.8	32
6	Structure of Plasma-Deposited Copolymer Films Prepared from Acrylic Acid and Styrene: Part I Dependence on the Duty Cycle. <i>Plasma Processes and Polymers</i> , 2012, 9, 273-284.	3.0	31
7	Surface and Bulk Structure of Thin Spin Coated and Plasma-Polymerized Polystyrene Films. <i>Plasma Chemistry and Plasma Processing</i> , 2012, 32, 767-780.	2.4	25
8	Degradation behavior of thin polystyrene films on exposure to Ar plasma and its emitted radiation. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 324-338.	2.6	24
9	XPS and IR studies of plasma polymers layer deposited from allylamine with addition of ammonia. <i>Applied Surface Science</i> , 2018, 458, 1006-1017.	6.1	24
10	Enhancement of Poly(vinyl chloride) Electrolyte Membrane by Its Exposure to an Atmospheric Dielectric Barrier Discharge Followed by Grafting with Polyacrylic Acid. <i>Plasma Chemistry and Plasma Processing</i> , 2019, 39, 1499-1517.	2.4	23
11	Structure/property relationship of polyvinyl alcohol/dimethoxydimethylsilane composite membrane: Experimental and theoretical studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117810.	3.9	22
12	Reaction of Water with (Radicals in) Plasma Polymerized Allyl Alcohol (and Formation of OH-Rich) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50	2.6	21
13	Degradation of organic dye using plasma discharge: optimization, pH and energy. <i>Plasma Research Express</i> , 2020, 2, 015009.	0.9	21
14	Structure of Plasma Poly(Acrylic Acid): Influence of Pressure and Dielectric Properties. <i>Plasma Chemistry and Plasma Processing</i> , 2015, 35, 303-320.	2.4	20
15	Plasma polymerized allyl alcohol/O <sub>2</sub> thin films embedded with silver nanoparticles. <i>Thin Solid Films</i> , 2016, 616, 339-347.	1.8	20
16	High performance graphene-based PVF foam for lead removal from water. <i>Journal of Materials Research and Technology</i> , 2020, 9, 11861-11875.	5.8	20
17	Recycling of supported nanocomposites for hazardous industrial wastewater treatment via Solar photocatalytic process. <i>Egyptian Journal of Petroleum</i> , 2021, 30, 29-35.	2.6	20
18	Structure-Property Relationship of Thin Plasma Deposited Poly(allyl alcohol) Films. <i>Plasma Chemistry and Plasma Processing</i> , 2011, 31, 477-498.	2.4	19

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19	Structure of Plasma-Deposited Copolymer Films Prepared from Acrylic Acid and Styrene: Part I Variation of the Comonomer Ratio. <i>Plasma Processes and Polymers</i> , 2013, 10, 750-760.	3.0	19
20	Influence of water addition on the structure of plasma-deposited allyl alcohol polymer films. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 965-980.	2.6	18
21	Influence of pH values on the electrochemical performance of low carbon steel coated by plasma thin SiO <sub>2</sub> films. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103391.	4.9	18
22	Reaction of CO <sub>2</sub> Gas with (radicals in) Plasma-Polymerized Acrylic Acid (and Formation of COOH-Rich) Tj ETQq0 0 0,rgBT /Overlock 10 TF	3.0	17
23	Degradation of local Brilliant Blue R dye in presence of polyvinylidene fluoride/MWCNTs/TiO <sub>2</sub> as photocatalysts and plasma discharge. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 106854.	6.7	17
24	One-step synthesis of silver nanoparticles embedded with polyethylene glycol as thin films. <i>Journal of Adhesion Science and Technology</i> , 2017, 31, 1422-1440.	2.6	16
25	Impact of Starch Coating Embedded with Silver Nanoparticles on Strawberry Storage Time. <i>Polymers</i> , 2022, 14, 1439.	4.5	16
26	Poly(vinyl alcohol)-hyaluronic Acid Membranes for Wound Dressing Applications: Synthesis and in vitro Bio-Evaluations. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	15
27	Tuned interactions of silver nanoparticles with ZSM-5 zeolite by adhesion-promoting poly(acrylic) Tj ETQq1 1 0.784314 rgBT /Overlock 11	2.6	14
28	Effect of Silver Nanoparticles on the Dielectric Properties and the Homogeneity of Plasma Poly(acrylic acid) Thin Films. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22817-22826.	3.1	14
29	Surface modification of polyvinyl chloride by polyacrylic acid grafts as a polyelectrolyte membrane using Ar plasma. <i>Turkish Journal of Chemistry</i> , 2019, 43, 1686-1696.	1.2	12
30	Assessment of vinyl acetate polyurethane-based graft terpolymers for emulsion coatings: Synthesis and characterization. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2020, 57, 229-243.	2.2	12
31	Effect of Chitosan Nanoparticles as Edible Coating on the Storability and Quality of Apricot Fruits. <i>Polymers</i> , 2022, 14, 2227.	4.5	12
32	One-step plasma deposited thin SiO <sub>2</sub> /C <sub>y</sub> films for corrosion resistance of low carbon steel. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 1734-1751.	2.6	11
33	Novel PVA/Methoxytrimethylsilane elastic composite membranes: preparation, characterization and DFT computation. <i>Journal of Molecular Structure</i> , 2021, 1235, 130173.	3.6	10
34	Plasma O <sub>2</sub> modifies the structure of synthetic zeolite-A to improve the removal of cadmium ions from aqueous solutions. <i>Turkish Journal of Chemistry</i> , 2019, 43, 172-184.	1.2	10
35	PLASMA POWER IMPACT ON ELECTROCHEMICAL PERFORMANCE OF LOW CARBON STEEL COATED BY PLASMA THIN TEOS FILMS. <i>Al-Azhar Bulletin of Science</i> , 2020, 31, 51-58.	0.1	9
36	Silver/Polyethylene Glycol Nanocomposite Thin Films and its Biological Applications. <i>Journal of Advances in Chemistry</i> , 2015, 11, 3597-3608.	0.1	9

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37	Photo-curable carboxymethylcellulose composite hydrogel as a promising biomaterial for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2022, 207, 1011-1021.	7.5	8
38	Modified polyvinyl chloride membrane grafted with an ultra-thin polystyrene film: structure and electrochemical properties. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2273-2284.	5.8	6
39	Influence of poloxmer on the dissolution properties of mosapride and its pharmaceutical tablet formulation. <i>Egyptian Journal of Chemistry</i> , 2017, 60, 443-451.	0.2	6
40	Waterborne nano-emulsions of polyvinyl acetate-polyurethane coatings containing different types of vinyl monomers: synthesis and characterization. <i>Pigment and Resin Technology</i> , 2023, 52, 7-18.	0.9	5
41	POLYVINYL CHLORIDE MEMBRANES GRAFTING WITH POLYACRYLIC ACID VIA AR-PLASMA TREATMENT. <i>Al-Azhar Bulletin of Science</i> , 2019, 30, 81-89.	0.1	4
42	A new route for synthesis of polyurethane vinyl acetate acrylate emulsions as binders for pigment printing of cotton fabrics. <i>Egyptian Journal of Chemistry</i> , 2020, .	0.2	4
43	Structure of plasma-deposited copolymer films prepared from acrylic acid and styrene: Part III sulfonation and electrochemical properties. <i>Plasma Processes and Polymers</i> , 2022, 19, .	3.0	3
44	Graphene Oxide/Polyvinyl Alcohol-Formaldehyde Composite Loaded by Pb Ions: Structure and Electrochemical Performance. <i>Polymers</i> , 2022, 14, 2303.	4.5	3
45	Synthesis and biological activities of polymer-thorium (IV) nanocomposites. <i>Polymer Composites</i> , 2019, 40, 1939-1950.	4.6	2
46	The electrical characteristics of nanostructured Copper (I) Iodide (CuI) thin films sprayed at different substrate temperatures. , 2012, , .		1
47	Porous polyvinyl formaldehyde / MWCNTs foam for Pb+2 removal from water. <i>Egyptian Journal of Chemistry</i> , 2020, .	0.2	1
48	Comparative study between the analgesic effects of transversus abdominis plane block and caudal block in lower abdominal surgeries in pediatrics compared with general anesthesia. <i>Al-Azhar Assiut Medical Journal</i> , 2018, 16, 405.	0.0	0