

Ayman M Darwish

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83 papers	1,997 citations	30 h-index	41 g-index
91 ext. papers	2,706 ext. citations	4 avg, IF	6.73 L-index

#	Paper	IF	Citations
83	Cadmium oxide/TEMPO-oxidized cellulose nanocomposites produced by pulsed laser ablation in liquid environment: Synthesis, characterization, and antimicrobial activity. <i>Optics and Laser Technology</i> , 2019 , 120, 105744	4.2	77
82	Ultra-thin silver nanoparticles film prepared via pulsed laser deposition: Synthesis, characterization, and its catalytic activity on reduction of 4-nitrophenol. <i>Surfaces and Interfaces</i> , 2020 , 19, 100438	4.1	68
81	Impact of CuO doping on the properties of CdO thin films on the catalytic degradation by using pulsed-Laser deposition technique. <i>Optical Materials</i> , 2020 , 100, 109663	3.3	65
80	One-pot synthesis of nanostructured CdS, CuS, and SnS by pulsed laser ablation in liquid environment and their antimicrobial activity. <i>Optics and Laser Technology</i> , 2020 , 121, 105824	4.2	65
79	Multi walled carbon nanotube decorated cadmium oxide nanoparticles via pulsed laser ablation in liquid media. <i>Optics and Laser Technology</i> , 2019 , 111, 249-254	4.2	62
78	Effect of nanostructured metal oxides (CdO, Al ₂ O ₃ , Cu ₂ O) embedded in PVA via Nd:YAG pulsed laser ablation on their optical and structural properties. <i>Journal of Molecular Structure</i> , 2020 , 1203, 127374	3.4	60
77	Clean production of powdery silver nanoparticles using Zingiber officinale: The structural and catalytic properties. <i>Journal of Cleaner Production</i> , 2019 , 241, 118398	10.3	58
76	Synthesis of cadmium oxide nanoparticles by pulsed laser ablation in liquid environment. <i>Optik</i> , 2017 , 144, 679-684	2.5	58
75	Investigation of factors affecting the synthesis of nano-cadmium sulfide by pulsed laser ablation in liquid environment. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 153, 315-20	4.4	56
74	WO ₃ quantum dot: Synthesis, characterization and catalytic activity. <i>Journal of Molecular Structure</i> , 2019 , 1185, 351-356	3.4	54
73	Synthesis of ZnO and Au@ZnO core/shell nano-catalysts by pulsed laser ablation in different liquid media. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 3241-3248	5.5	54
72	Synthesis of Nano-Cadmium Sulfide by Pulsed Laser Ablation in Liquid Environment. <i>Spectroscopy Letters</i> , 2015 , 48, 638-645	1.1	53
71	Polyvinyl Alcohol/Silver nanoparticles film prepared via pulsed laser ablation: An eco-friendly nano-catalyst for 4-nitrophenol degradation. <i>Journal of Molecular Structure</i> , 2020 , 1212, 128125	3.4	52
70	Au@CdO core/shell nanoparticles synthesized by pulsed laser ablation in Au precursor solution. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	48
69	Eco-friendly cellulose nano fibers via first reported Egyptian Humicola fuscoatra Egyptia X4: Isolation and characterization. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2018 , 10, 409-418	3.3	48
68	Preparation of highly conductive, transparent, and flexible graphene/silver nanowires substrates using non-thermal laser photoreduction. <i>Optics and Laser Technology</i> , 2018 , 103, 367-372	4.2	47
67	Ag doped CuO thin film prepared via pulsed laser deposition for 4-nitrophenol degradation. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104104	6.8	43

66	Synthesis of antimicrobial cellulosic derivative and its catalytic activity. <i>Journal of King Saud University - Science</i> , 2020 , 32, 436-442	3.6	41
65	Laser-assisted for preparation ZnO/CdO thin film prepared by pulsed laser deposition for catalytic degradation. <i>Radiation Physics and Chemistry</i> , 2020 , 176, 109020	2.5	35
64	Synthesis and nonlinear optical properties of a novel indium phthalocyanine highly branched polymer. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 1014-1019	3.2	35
63	Unmanned aerial vehicle (UAV) manufacturing materials: Synthesis, spectroscopic characterization and dynamic mechanical analysis (DMA). <i>Journal of Molecular Structure</i> , 2020 , 1201, 127211	3.4	35
62	Optical, electrical and mechanical studies of paper sheets coated by metals (Cu and Ag) via pulsed laser deposition. <i>Journal of Molecular Structure</i> , 2019 , 1198, 126927	3.4	34
61	Effect of laser shock peening on the hardness of AL-7075 alloy. <i>Journal of King Saud University - Science</i> , 2019 , 31, 472-478	3.6	34
60	An Eco-friendly Synthesis of V2O5 Nanoparticles and Their Catalytic Activity for the Degradation of 4-Nitrophenol. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019 , 29, 1324-1330	3.2	33
59	Synthesis of ZnO/CdO thin film for catalytic degradation of 4-nitrophenol. <i>Journal of Molecular Structure</i> , 2020 , 1221, 128872	3.4	33
58	Laser-assisted for preparation Ag/CdO nanocomposite thin film: Structural and optical study. <i>Optical Materials</i> , 2020 , 107, 110124	3.3	33
57	Indium(III) phthalocyanine eka-conjugated polymer as high-performance optical limiter upon nanosecond laser irradiation. <i>High Performance Polymers</i> , 2016 , 28, 651-659	1.6	33
56	Luminescent plant root: A step toward electricity-free natural lighting plants. <i>Journal of Molecular Structure</i> , 2019 , 1176, 249-253	3.4	33
55	Effect of dual-beam laser radiation for synthetic SnO ₂ /Au nanoalloy for antibacterial activity. <i>Journal of Molecular Structure</i> , 2020 , 1222, 128913	3.4	32
54	Influence of coating by Cu and Ag nanoparticles via pulsed laser deposition technique on optical, electrical and mechanical properties of cellulose paper. <i>Journal of Molecular Structure</i> , 2020 , 1203, 127472	3.4	31
53	A comparative study on the color change of pigments due to the consolidation of conventional spectroscopic techniques and laser-induced breakdown spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	30
52	Limit of detection and hardness evaluation of some steel alloys utilizing optical emission spectroscopic techniques. <i>Optics and Laser Technology</i> , 2018 , 108, 634-641	4.2	29
51	Tailored MWCNTs/SnO ₂ decorated cellulose nanofiber adsorbent for the removal of Cu (II) from waste water. <i>Radiation Physics and Chemistry</i> , 2020 , 177, 109172	2.5	29
50	Preparation and study of nonlinear response of embedding ZnO nanoparticles in PVA thin film by pulsed laser ablation. <i>Journal of Molecular Structure</i> , 2021 , 1223, 129007	3.4	28
49	Comparative study of LIBS and mechanically evaluated hardness of graphite/ rubber composites. <i>Materials Chemistry and Physics</i> , 2018 , 207, 30-35	4.4	25

48	Efficient removal of Cu (II) by SnO ₂ /MWCNTs nanocomposite by pulsed laser ablation method. <i>Nano Structures Nano Objects</i> , 2020 , 24, 100591	5.6	25
47	UV-induced macromolecular and optical modifications in gelatin solid films with transition metal chlorides. <i>Journal of Molecular Structure</i> , 2019 , 1182, 181-190	3.4	22
46	Fabrication of magnesium metallic nanoparticles by liquid-assisted laser ablation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 2620	1.7	21
45	The enhancement of nonlinear absorption of Zn/ZnO thin film by creation oxygen vacancies via infrared laser irradiation and coating with Ag thin film via pulsed laser deposition. <i>Journal of Molecular Structure</i> , 2021 , 1226, 129407	3.4	19
44	Effects of post-laser irradiation on the optical and structure properties of Al ₂ O ₃ nanoparticles produced by laser ablation. <i>Journal of Applied Physics</i> , 2020 , 128, 153104	2.5	18
43	The effect of reaction temperature on structural, optical and electrical properties of tunable ZnO nanoparticles synthesized by hydrothermal method. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 154, 110089	3.9	16
42	ZnO nanoparticles decorated carbon nanotubes via pulsed laser ablation method for degradation of methylene blue dyes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 627, 127204	5.1	16
41	t-Butyl calixarene/FeO@MWCNTs composite-based potentiometric sensor for determination of ivabradine hydrochloride in pharmaceutical formulations. <i>Materials Science and Engineering C</i> , 2020 , 116, 111110	8.3	15
40	Effect of liquid media and laser energy on the preparation of Ag nanoparticles and their nanocomposites with Au nanoparticles via laser ablation for optoelectronic applications. <i>Optik</i> , 2021 , 241, 167217	2.5	15
39	Tuning the plasmon resonance and work function of laser-scribed chemically doped graphene. <i>Carbon</i> , 2017 , 120, 44-53	10.4	14
38	Novel laser-assisted method for synthesis of SnO ₂ /MWCNTs nanocomposite for water treatment from Cu (II). <i>Diamond and Related Materials</i> , 2021 , 113, 108287	3.5	14
37	Optical and Thermal Investigations of New Schiff Base/Ester Systems in Pure and Mixed States. <i>Polymers</i> , 2021 , 13,	4.5	14
36	Spectroscopic studies of the interaction between isolated polyphenols from coffee and the milk proteins. <i>Surfaces and Interfaces</i> , 2020 , 20, 100558	4.1	13
35	Optical emission spectroscopy for concrete strength evaluation utilizing calcium lines. <i>Optics and Laser Technology</i> , 2018 , 106, 69-75	4.2	12
34	Preparation, characterization, and nonlinear optical properties of graphene oxide thin film doped with low chirality metallic SWCNTs. <i>Journal of Materials Research and Technology</i> , 2021 , 12, 1461-1472	5.5	12
33	Linear and nonlinear optical studies of Ag/Zn/ZnO nanocomposite thin film prepared by pulsed laser deposition technique. <i>Radiation Physics and Chemistry</i> , 2021 , 179, 109233	2.5	12
32	Synthesis of multi-walled carbon nanotubes decorated with silver metallic nanoparticles as a catalytic degradable material via pulsed laser ablation in liquid media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 626, 126992	5.1	12
31	Fascinating thermo-mechanical features of layered hydroxides/MWCNTs nanocomposites. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 912-924	5.7	11

30	Preparation, characterization, and thermal conductivity of polyvinyl-formaldehyde/MWCNTs foam: A low cost heat sink substrate. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 2934-2945	5.5	11
29	High performance graphene-based PVF foam for lead removal from water. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 11861-11875	5.5	11
28	Advanced analyses of solid waste raw materials from cement plant using dual spectroscopy techniques towards co-processing. <i>Optics and Laser Technology</i> , 2019 , 111, 338-346	4.2	10
27	Catalytic activity of multi-walled carbon nanotubes decorated with tungsten trioxides nanoparticles against 4-nitrophenol. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 158, 110252	3.9	10
26	The effect of laser fluence for enhancing the antibacterial activity of NiO nanoparticles by pulsed laser ablation in liquid media. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2020 , 14, 100382	3.3	9
25	Catalytic activity of Ag nanoparticles and Au/Ag nanocomposite prepared by pulsed laser ablation technique against 4-nitrophenol for environmental applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 11978-11988	2.1	9
24	Au@Ag core/shell nanoparticles prepared by laser-assisted method for optical limiting applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 14728	2.1	9
23	Fabrication Of Gold Nanoparticles In Absence Of Surfactant As In Vitro Carrier Of Plasmid DNA. <i>International Journal of Nanomedicine</i> , 2019 , 14, 8399-8408	7.3	7
22	Molecularly Imprinted Electrochemical Sensor-Based FeO@MWCNTs for Ivabradine Drug Determination in Pharmaceutical Formulation, Serum, and Urine Samples. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 648704	5.8	7
21	Gallic acid-assisted growth of cuprous oxide within polyvinyl alcohol; a separable catalyst for oxidative and reductive degradation of water pollutants. <i>Journal of Cleaner Production</i> , 2021 , 279, 123826	10.3	7
20	Synthesis of Ag Nanoparticles-Decorated CNTs via Laser Ablation Method for the Enhancement the Photocatalytic Removal of Naphthalene from Water. <i>Nanomaterials</i> , 2021 , 11,	5.4	7
19	Zinc oxide/carbon nanotubes nanocomposite: Synthesis, characterization and catalytic reduction of 4-nitrophenol via laser assistant method. <i>Surfaces and Interfaces</i> , 2021 , 26, 101406	4.1	7
18	Facile synthesis of Cu ₂ O nanoparticles using pulsed laser ablation method for optoelectronic applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 630, 127562	5.1	7
17	Tailored CNTs Buckypaper Membranes for the Removal of Humic Acid and Separation of Oil-in-Water Emulsions. <i>Membranes</i> , 2020 , 10,	3.8	6
16	Mechanical hardness estimation of heat-treated DIN50Cr3 spring steel utilizing laser-induced breakdown spectroscopy (LIBS) inverse calibration. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	6
15	Wet chemistry route for the decoration of carbon nanotubes with iron oxide nanoparticles for gas sensing. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 105-118	3	6
14	Enhancing the Performance of Polygon Monopole Antenna Using Graphene/TMDCs Heterostructures. <i>IEEE Nanotechnology Magazine</i> , 2020 , 19, 269-273	2.6	5
13	Terahertz, Infrared, and UV-Vis Spectroscopy Study on Silver@Polyaniline Core@Shell Nanocomposites: Optical and Electronic Properties. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 18243-18256	3.8	5

12	Induced Smectic Phases from Supramolecular H-Bonded Complexes Based on Non-Mesomorphic Components. <i>Crystals</i> , 2021 , 11, 940	2.3	4
11	Thermal and Mesomorphic Investigations of 1:1 Supramolecular Assemblies of 4-[(4-(n-Alkoxy)phenylimino)methyl]benzoic Acids Having Symmetrical and Un-Symmetrical Terminal Chain Lengths. <i>Symmetry</i> , 2021 , 13, 1785	2.7	4
10	Improvement in electrical conductivity characterization of chitosan/Poly (ethylene oxide) incorporated with V2O5 NPs via laser ablation. <i>Journal of Materials Research and Technology</i> , 2022 , 16, 1272-1282	5.5	2
9	Role of laser fluence on ionic emission characteristics from steel plasmas induced in atmospheric air. <i>Radiation Physics and Chemistry</i> , 2021 , 185, 109515	2.5	2
8	Structural, linear and nonlinear optical properties of NiO nanoparticles/multi-walled carbon nanotubes nanocomposite for optoelectronic applications. <i>Radiation Physics and Chemistry</i> , 2022 , 195, 110088	2.5	2
7	Multifunctional leather surface embedded with zinc oxide nanoparticles by pulsed laser ablation method.. <i>Microscopy Research and Technique</i> , 2021 ,	2.8	2
6	Catalytic performance of NiO nanoparticles decorated carbon nanotubes via one-pot laser ablation method against methyl orange dye. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 3336-3346	5.5	2
5	Superior nonlinear optical and optical limiting properties of cross-linked and thermally stable HiPCO-SWCNTs@PVA films. <i>Optical Materials</i> , 2021 , 122, 111732	3.3	1
4	Ecofriendly sustainable synthesized nano-composite for removal of heavy metals from aquatic environment. <i>Applied Nanoscience (Switzerland)</i> , 1	3.3	1
3	New Liquid Crystals Based on Terminal Fatty Chains and Polymorphic Phase Formation from Their Mixtures. <i>Crystals</i> , 2022 , 12, 350	2.3	1
2	Garlic peel as promising low-cost support for the cobalt nanocatalyst; synthesis and catalytic studies.. <i>Journal of Environmental Management</i> , 2022 , 312, 114919	7.9	1
1	Removal of methylene blue dye from aqueous solution using carbon nanotubes decorated by nickel oxide nanoparticles via pulsed laser ablation method. <i>Radiation Physics and Chemistry</i> , 2022 , 198, 110268	2.5	0