Mohamed Mostafa ELFaham

List of Publications by Year
in descending order

53 papers	2,248 citations	136740 32 h-index	223531 46 g-index
53 all docs	53 docs citations	53 times ranked	990 citing authors

#	Article	IF	Citations
1	One-pot synthesis of nanostructured CdS, CuS, and SnS by pulsed laser ablation in liquid environment and their antimicrobial activity. Optics and Laser Technology, 2020, 121, 105824.	2.2	99
2	Multi walled carbon nanotube decorated cadmium oxide nanoparticles via pulsed laser ablation in liquid media. Optics and Laser Technology, 2019, 111, 249-254.	2.2	93
3	Cadmium oxide/TEMPO-oxidized cellulose nanocomposites produced by pulsed laser ablation in liquid environment: Synthesis, characterization, and antimicrobial activity. Optics and Laser Technology, 2019, 120, 105744.	2.2	90
4	Impact of CuO doping on the properties of CdO thin films on the catalytic degradation by using pulsed-Laser deposition technique. Optical Materials, 2020, 100, 109663.	1.7	88
5	Synthesis of ZnO and Au@ZnO core/shell nano-catalysts by pulsed laser ablation in different liquid media. Journal of Materials Research and Technology, 2020, 9, 3241-3248.	2.6	86
6	Effect of nanostructured metal oxides (CdO, Al2O3, Cu2O) embedded in PVA via Nd:YAG pulsed laser ablation on their optical and structural properties. Journal of Molecular Structure, 2020, 1203, 127374.	1.8	83
7	Polyvinyl Alcohol/Silver nanoparticles film prepared via pulsed laser ablation: An eco-friendly nano-catalyst for 4-nitrophenol degradation. Journal of Molecular Structure, 2020, 1212, 128125.	1.8	80
8	Synthesis of cadmium oxide nanoparticles by pulsed laser ablation in liquid environment. Optik, 2017, 144, 679-684.	1.4	79
9	WO3 quantum dot: Synthesis, characterization and catalytic activity. Journal of Molecular Structure, 2019, 1185, 351-356.	1.8	68
10	Effect of laser shock peening on the hardness of AL-7075 alloy. Journal of King Saud University - Science, 2019, 31, 472-478.	1.6	59
11	Laser-assisted for preparation ZnO/CdO thin film prepared by pulsed laser deposition for catalytic degradation. Radiation Physics and Chemistry, 2020, 176, 109020.	1.4	59
12	Au@CdO core/shell nanoparticles synthesized by pulsed laser ablation in Au precursor solution. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	58
13	Eco-friendly cellulose nano fibers via first reported Egyptian Humicola fuscoatra Egyptia X4: Isolation and characterization. Environmental Nanotechnology, Monitoring and Management, 2018, 10, 409-418.	1.7	56
14	Novel laser-assisted method for synthesis of SnO2/MWCNTs nanocomposite for water treatment from Cu (II). Diamond and Related Materials, 2021, 113, 108287.	1.8	55
15	ZnO nanoparticles decorated carbon nanotubes via pulsed laser ablation method for degradation of methylene blue dyes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127204.	2.3	55
16	Synthesis of antimicrobial cellulosic derivative and its catalytic activity. Journal of King Saud University - Science, 2020, 32, 436-442.	1.6	53
17	Preparation and study of nonlinear response of embedding ZnO nanoparticles in PVA thin film by pulsed laser ablation. Journal of Molecular Structure, 2021, 1223, 129007.	1.8	51
18	Effect of dual-beam laser radiation for synthetic SnO2/Au nanoalloy for antibacterial activity. Journal of Molecular Structure, 2020, 1222, 128913.	1.8	50

#	Article	IF	Citations
19	Dual-Spectroscopy Platform for the Surveillance of Mars Mineralogy Using a Decisions Fusion Architecture on Simultaneous LIBS-Raman Data. Analytical Chemistry, 2018, 90, 2079-2087.	3.2	49
20	Influence of coating by Cu and Ag nanoparticles via pulsed laser deposition technique on optical, electrical and mechanical properties of cellulose paper. Journal of Molecular Structure, 2020, 1203, 127472.	1.8	49
21	Unmanned aerial vehicle (UAV) manufacturing materials: Synthesis, spectroscopic characterization and dynamic mechanical analysis (DMA). Journal of Molecular Structure, 2020, 1201, 127211.	1.8	48
22	Synthesis of multi-walled carbon nanotubes decorated with silver metallic nanoparticles as a catalytic degradable material via pulsed laser ablation in liquid media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 626, 126992.	2.3	47
23	Tailored MWCNTs/SnO2 decorated cellulose nanofiber adsorbent for the removal of Cu (II) from waste water. Radiation Physics and Chemistry, 2020, 177, 109172.	1.4	46
24	Laser-assisted for preparation Ag/CdO nanocomposite thin film: Structural and optical study. Optical Materials, 2020, 107, 110124.	1.7	44
25	Synthesis of Ag Nanoparticles-Decorated CNTs via Laser Ablation Method for the Enhancement the Photocatalytic Removal of Naphthalene from Water. Nanomaterials, 2021, 11, 2142.	1.9	44
26	The effect of reaction temperature on structural, optical and electrical properties of tunable ZnO nanoparticles synthesized by hydrothermal method. Journal of Physics and Chemistry of Solids, 2021, 154, 110089.	1.9	42
27	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. Optik, 2021, 241, 167217.	1.4	42
28	Luminescent plant root: A step toward electricity-free natural lighting plants. Journal of Molecular Structure, 2019, 1176, 249-253.	1.8	41
29	Efficient removal of Cu (II) by SnO2/MWCNTs nanocomposite by pulsed laser ablation method. Nano Structures Nano Objects, 2020, 24, 100591.	1.9	41
30	Fabrication of magnesium metallic nanoparticles by liquid-assisted laser ablation. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2620.	0.9	40
31	Limit of detection and hardness evaluation of some steel alloys utilizing optical emission spectroscopic techniques. Optics and Laser Technology, 2018, 108, 634-641.	2.2	38
32	Comparative study of LIBS and mechanically evaluated hardness of graphite/ rubber composites. Materials Chemistry and Physics, 2018, 207, 30-35.	2.0	37
33	Effects of post-laser irradiation on the optical and structure properties of Al2O3 nanoparticles produced by laser ablation. Journal of Applied Physics, 2020, 128, .	1.1	33
34	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. Journal of Molecular Structure, 2021, 1226, 129407.	1.8	30
35	Catalytic activity of multi-walled carbon nanotubes decorated with tungsten trioxides nanoparticles against 4-nitrophenol. Journal of Physics and Chemistry of Solids, 2021, 158, 110252.	1.9	28
36	Facile synthesis of Cu2O nanoparticles using pulsed laser ablation method for optoelectronic applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127562.	2.3	28

#	Article	IF	Citations
37	Catalytic performance of NiO nanoparticles decorated carbon nanotubes via one-pot laser ablation method against methyl orange dye. Journal of Materials Research and Technology, 2022, 18, 3336-3346.	2.6	27
38	Spectroscopic studies of the interaction between isolated polyphenols from coffee and the milk proteins. Surfaces and Interfaces, 2020, 20, 100558.	1.5	25
39	Linear and nonlinear optical studies of Ag/Zn/ZnO nanocomposite thin film prepared by pulsed laser deposition technique. Radiation Physics and Chemistry, 2021, 179, 109233.	1.4	23
40	Catalytic activity of Ag nanoparticles and Au/Ag nanocomposite prepared by pulsed laser ablation technique against 4-nitrophenol for environmental applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 11978-11988.	1.1	21
41	Removal of methylene blue dye from aqueous solution using carbon nanotubes decorated by nickel oxide nanoparticles via pulsed laser ablation method. Radiation Physics and Chemistry, 2022, 198, 110268.	1.4	20
42	Optical emission spectroscopy for concrete strength evaluation utilizing calcium lines. Optics and Laser Technology, 2018, 106, 69-75.	2.2	19
43	Zinc oxide/carbon nanotubes nanocomposite: Synthesis, characterization and catalytic reduction of 4-nitrophenol via laser assistant method. Surfaces and Interfaces, 2021, 26, 101406.	1.5	19
44	Mechanical hardness estimation of heat-treated DIN50Cr3 spring steel utilizing laser-induced breakdown spectroscopy (LIBS) inverse calibration. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	18
45	Au@Ag core/shell nanoparticles prepared by laserâ€assisted method for optical limiting applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 14728-14739.	1.1	17
46	Nonlinearity enhancement of Multi-walled carbon nanotube decorated with ZnO nanoparticles prepared by laser assisted method. Optics and Laser Technology, 2022, 155, 108444.	2.2	16
47	Advanced analyses of solid waste raw materials from cement plant using dual spectroscopy techniques towards co-processing. Optics and Laser Technology, 2019, 111, 338-346.	2.2	15
48	Fascinating thermo-mechanical features of layered hydroxides/MWCNTs nanocomposites. Journal of Alloys and Compounds, 2019, 788, 912-924.	2.8	14
49	Role of laser fluence on ionic emission characteristics from steel plasmas induced in atmospheric air. Radiation Physics and Chemistry, 2021, 185, 109515.	1.4	8
50	Removal of Ni(II) Ions by Poly(Vinyl Alcohol)/Al2O3 Nanocomposite Film via Laser Ablation in Liquid. Membranes, 2022, 12, 660.	1.4	8
51	Multifunctional leather surface embedded with zinc oxide nanoparticles by pulsed laser ablation method. Microscopy Research and Technique, 2022, 85, 1611-1617.	1.2	7
52	Study of the adsorptive removal of (Fe⁺²) and (Ni⁺²) from water by synthesized magnetite/corn cobs magnetic nanocomposite. Nano Futures, 2022, 6, 025004.	1.0	2
53	Determination of some radionucluides and heavy elements concentrations in concrete raw materials. , 2015, , .		0