

Mady Elbahri

List of Publications by Year in descending order

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86
papers

3,505
citations

168829

31
h-index

156644

58
g-index

87
all docs

87
docs citations

87
times ranked

6129
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of a Perfect Black Absorber at Visible Frequencies Using Plasmonic Metamaterials. <i>Advanced Materials</i> , 2011, 23, 5410-5414.	11.1	425
2	Graphene membranes for water desalination. <i>NPG Asia Materials</i> , 2017, 9, e427-e427.	3.8	315
3	Metal-Polymer Nanocomposites for Functional Applications. <i>Advanced Engineering Materials</i> , 2010, 12, 1177-1190.	1.6	209
4	Nanocomposite Electrospun Nanofiber Membranes for Environmental Remediation. <i>Materials</i> , 2014, 7, 1017-1045.	1.3	206
5	Review of Plasmonic Nanocomposite Metamaterial Absorber. <i>Materials</i> , 2014, 7, 1221-1248.	1.3	149
6	Strain-controlled growth of nanowires within thin-film cracks. <i>Nature Materials</i> , 2004, 3, 375-379.	13.3	140
7	Antireflective Coatings: Conventional Stacking Layers and Ultrathin Plasmonic Metasurfaces, A Mini-Review. <i>Materials</i> , 2016, 9, 497.	1.3	119
8	Green chemistry and nanofabrication in a levitated Leidenfrost drop. <i>Nature Communications</i> , 2013, 4, 2400.	5.8	114
9	Review of Metasurface Plasmonic Structural Color. <i>Plasmonics</i> , 2017, 12, 1463-1479.	1.8	108
10	Toxicity of Functional Nano-Micro Zinc Oxide Tetrapods: Impact of Cell Culture Conditions, Cellular Age and Material Properties. <i>PLoS ONE</i> , 2014, 9, e84983.	1.1	95
11	Plasmonic tunable metamaterial absorber as ultraviolet protection film. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	95
12	Novel compaction resistant and ductile nanocomposite nanofibrous microfiltration membranes. <i>Journal of Colloid and Interface Science</i> , 2012, 372, 6-15.	5.0	82
13	Tunable broadband plasmonic perfect absorber at visible frequency. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 769-773.	1.1	80
14	Formation of Self-organized Silver Nanocup-Type Structures and Their Plasmonic Absorption. <i>Plasmonics</i> , 2013, 8, 811-815.	1.8	75
15	A Novel Nanohybrid Nanofibrous Adsorbent for Water Purification from Dye Pollutants. <i>Materials</i> , 2016, 9, 848.	1.3	62
16	The solvent induced interfiber adhesion and its influence on the mechanical and filtration properties of polyethersulfone electrospun nanofibrous microfiltration membranes. <i>Separation and Purification Technology</i> , 2012, 98, 456-463.	3.9	61
17	The hybrid concept for realization of an ultra-thin plasmonic metamaterial antireflection coating and plasmonic rainbow. <i>Nanoscale</i> , 2014, 6, 6037-6045.	2.8	52
18	Extraordinarily water permeable sol-gel formed nanocomposite nanofibrous membranes. <i>Journal of Colloid and Interface Science</i> , 2012, 366, 51-56.	5.0	51

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19	The Electrospun Ceramic Hollow Nanofibers. <i>Nanomaterials</i> , 2017, 7, 383.	1.9	51
20	Effective Optical Properties of Plasmonic Nanocomposites. <i>Materials</i> , 2014, 7, 727-741.	1.3	50
21	Anti-Lotus Effect for Nanostructuring at the Leidenfrost Temperature. <i>Advanced Materials</i> , 2007, 19, 1262-1266.	11.1	48
22	Preparation and plasmonic properties of polymer-based composites containing Ag@Au alloy nanoparticles produced by vapor phase co-deposition. <i>Journal of Materials Science</i> , 2010, 45, 5865-5871.	1.7	47
23	An Omnidirectional Transparent Conducting@Metal@Based Plasmonic Nanocomposite. <i>Advanced Materials</i> , 2011, 23, 1993-1997.	11.1	44
24	An Amphiphilic, Graphitic Buckypaper Capturing Enzyme Biomolecules from Water. <i>Water (Switzerland)</i> , 2019, 11, 2.	1.2	44
25	Photo-driven Super Absorber as an Active Metamaterial with a Tunable Molecular@Plasmonic Coupling. <i>Advanced Optical Materials</i> , 2014, 2, 705-710.	3.6	38
26	Light-Controlled Conductance Switching in Azobenzene-Containing MWCNT@Polymer Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11257-11262.	4.0	38
27	Plasmonic Metaparticles on a Blackbody Create Vivid Reflective Colors for Naked@Eye Environmental and Clinical Biodetection. <i>Advanced Materials</i> , 2018, 30, 1704442.	11.1	38
28	Pt Immobilization within a Tailored Porous-Organic Polymer@Graphene Composite: Opportunities in the Hydrogen Evolving Reaction. <i>ACS Catalysis</i> , 2017, 7, 7847-7854.	5.5	35
29	Ups and Downs of Water Photodecolorization by Nanocomposite Polymer Nanofibers. <i>Nanomaterials</i> , 2019, 9, 250.	1.9	35
30	Bovine Serum Albumin (BSA)/polyacrylonitrile (PAN) biohybrid nanofibers coated with a biomaterialized calcium deficient hydroxyapatite (HA) shell for wound dressing. <i>Materials Science and Engineering C</i> , 2020, 116, 111248.	3.8	34
31	Smart Metal@Polymer Bionanocomposites as Omnidirectional Plasmonic Black Absorber Formed by Nanofluid Filtration. <i>Advanced Functional Materials</i> , 2012, 22, 4771-4777.	7.8	33
32	Biofunctionalized nanofibrous membranes as super separators of protein and enzyme from water. <i>Journal of Colloid and Interface Science</i> , 2013, 406, 86-93.	5.0	33
33	Switchable Plasmonic Nanocomposites. <i>Advanced Optical Materials</i> , 2019, 7, 1801101.	3.6	30
34	Equal intensity double plasmon resonance of bimetallic quasi-nanocomposites based on sandwich geometry. <i>Nanotechnology</i> , 2008, 19, 225302.	1.3	28
35	Plasmon-Mediated Embedding of Nanoparticles in a Polymer Matrix: Nanocomposites Patterning, Writing, and Defect Healing. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17204-17209.	1.5	27
36	Nanotheranostics: A Possible Solution for Drug-Resistant <i>Staphylococcus aureus</i> and their Biofilms?. <i>Nanomaterials</i> , 2021, 11, 82.	1.9	26

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37	Integration of Thin-Film Fracture-Based Nanowires into Microchip Fabrication. <i>Small</i> , 2008, 4, 2214-2221.	5.2	24
38	Light-induced conductance switching in azobenzene based near-percolated single wall carbon nanotube/polymer composites. <i>Carbon</i> , 2015, 90, 94-101.	5.4	22
39	Vapor Phase Deposition, Structure, and Plasmonic Properties of Polymer-Based Composites Containing Ag-Cu Bimetallic Nanoparticles. <i>Plasmonics</i> , 2012, 7, 107-114.	1.8	21
40	Light-Triggered Control of Plasmonic Refraction and Group Delay by Photochromic Molecular Switches. <i>ACS Photonics</i> , 2015, 2, 1327-1332.	3.2	20
41	Underwater Leidenfrost nanochemistry for creation of size-tailored zinc peroxide cancer nanotherapeutics. <i>Nature Communications</i> , 2017, 8, 15319.	5.8	20
42	Employing Thin-Film Delamination for the Formation of Shadow Masks for Nanostructure Fabrication. <i>Advanced Materials</i> , 2006, 18, 1059-1062.	11.1	19
43	Teflon AF/Ag nanocomposites with tailored optical properties. <i>Journal of Materials Research</i> , 2006, 21, 2168-2171.	1.2	19
44	A Flexible Oxygenated Carbographite Nanofilamentous Buckypaper as an Amphiphilic Membrane. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800001.	1.9	19
45	Photoswitchable molecular dipole antennas with tailored coherent coupling in glassy composite. <i>Light: Science and Applications</i> , 2015, 4, e316-e316.	7.7	18
46	Photoresponsive Transparent Conductive Metal with a Photobleaching Nose. <i>Advanced Materials</i> , 2011, 23, 4243-4247.	11.1	17
47	Electrospinning of Poly[acrylonitrile-co-(glycidyl methacrylate)] Nanofibrous Mats for the Immobilization of <i>Candida Antarctica</i> Lipase B. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 319-327.	1.1	16
48	Broadband Anti-Reflective Coating Based on Plasmonic Nanocomposite. <i>Materials</i> , 2016, 9, 636.	1.3	16
49	A shape tailored gold-conductive polymer nanocomposite as a transparent electrode with extraordinary insensitivity to volatile organic compounds (VOCs). <i>Scientific Reports</i> , 2016, 6, 33895.	1.6	16
50	COVID-19 Pandemic: What about the Safety of Anti-Coronavirus Nanoparticles?. <i>Nanomaterials</i> , 2021, 11, 796.	1.9	16
51	Biofunctionalized nanofibrous membranes mimicking carnivorous plants. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2013, 2, 186-193.	0.7	13
52	Biomimetic Transferable Surface for a Real Time Control over Wettability and Photoerasable Writing with Water Drop Lens. <i>Scientific Reports</i> , 2015, 4, 7407.	1.6	11
53	Innovative Education and Active Teaching with the Leidenfrost Nanochemistry. <i>Journal of Chemical Education</i> , 2018, 95, 1966-1974.	1.1	11
54	Examples for the integration of self-organized nanowires for functional devices by a fracture approach. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2571-2580.	0.7	10

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55	Size-Tailored Physicochemical Properties of Monodisperse Polystyrene Nanoparticles and the Nanocomposites Made Thereof. <i>Scientific Reports</i> , 2020, 10, 5191.	1.6	9
56	Wenn ein Wassertropfen zum Nanolabor wird. <i>Chemkon - Chemie Konkret, Forum Fuer Unterricht Und Didaktik</i> , 2016, 23, 188-190.	0.2	8
57	Thermo-Plasmonics for Localized Graphitization and Welding of Polymeric Nanofibers. <i>Materials</i> , 2014, 7, 323-332.	1.3	7
58	Reflective Coloration from Structural Plasmonic to Disordered Polarizonic. <i>Advanced Photonics Research</i> , 2021, 2, 2100009.	1.7	6
59	A thin-film broadband perfect absorber based on plasmonic copper nanoparticles. <i>Micro and Nano Engineering</i> , 2022, 16, 100154.	1.4	6
60	Nanotunnel Formation Induced by Cu Electrodeposition on 1T-TaS ₂ . <i>Journal of the Electrochemical Society</i> , 2008, 155, D666.	1.3	5
61	Solar Aluminum Kitchen Foils with Omnidirectional Vivid Polarizonic Colors. <i>Advanced Optical Materials</i> , 2019, 7, 1900737.	3.6	5
62	Transflective Mesoscopic Nanoparticles Synthesized in the Leidenfrost Droplet as Black Absorbers. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801610.	1.9	5
63	Simple Ways to Complex Nanowires and Their Application. <i>Advances in Solid State Physics</i> , 2009, , 27-38.	0.8	5
64	Microporous MOF as nanogen facilitating diffusion-coupled charge transfer near the percolation threshold in a polyaniline pseudo-supercapacitor. <i>Materials Advances</i> , 2022, 3, 474-483.	2.6	4
65	Optically switchable natural silk. <i>Applied Physics Letters</i> , 2015, 106, 093702.	1.5	3
66	Nachhaltige Nanochemie - Zwei einfache Green Chemistry-Synthesen für den Chemieunterricht. <i>Chemkon - Chemie Konkret, Forum Fuer Unterricht Und Didaktik</i> , 2017, 24, 178-184.	0.2	3
67	Arrays of wirelike microstructures of Ag with visible wavelength transparent plasmonic response at near-ultraviolet and midinfrared regions. <i>Applied Physics Letters</i> , 2004, 85, 1952-1954.	1.5	2
68	Metamaterials: Photo-driven Super Absorber as an Active Metamaterial with a Tunable Molecular-Plasmonic Coupling (<i>Advanced Optical Materials</i> 8/2014). <i>Advanced Optical Materials</i> , 2014, 2, 704-704.	3.6	2
69	Switchable Plasmonics: Switchable Plasmonic Nanocomposites (<i>Advanced Optical Materials</i> 1/2019). <i>Advanced Optical Materials</i> , 2019, 7, 1970004.	3.6	2
70	Reflective Coloration from Structural Plasmonic to Disordered Polarizonic. <i>Advanced Photonics Research</i> , 2021, 2, 2170022.	1.7	2
71	Design of Voltage control Oscillator using Nonlinear Composite Right/Left-Handed Transmission Line. <i>Advanced Electromagnetics</i> , 2016, 5, 15.	0.7	2
72	Perfect Plasmonic Absorber: Design of a Perfect Black Absorber at Visible Frequencies Using Plasmonic Metamaterials (<i>Adv. Mater.</i> 45/2011). <i>Advanced Materials</i> , 2011, 23, 5409-5409.	11.1	1

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73	Nano galaxy. <i>Materials Today</i> , 2012, 15, 591.	8.3	1
74	Reawakening of plasmonic nanocomposites with the polarizonic reflective coloration: from metal to molecules. <i>Frontiers of Nanoscience</i> , 2020, , 185-214.	0.3	1
75	Employing Thin Film Failure Mechanisms to Form Templates for Nano-electronics. <i>Materials Research Society Symposia Proceedings</i> , 2005, 863, B7.3-1.	0.1	0
76	Using Thin Film Stress for Nanoscaled Sensors. <i>Materials Science Forum</i> , 2010, 638-642, 2028-2033.	0.3	0
77	Bionanocomposites: Smart Metal-Polymer Bionanocomposites as Omnidirectional Plasmonic Black Absorber Formed by Nanofluid Filtration (<i>Adv. Funct. Mater.</i> 22/2012). <i>Advanced Functional Materials</i> , 2012, 22, 4626-4626.	7.8	0
78	Perfect plasmonic absorber for visible frequency. , 2013, , .		0
79	Active metamaterial absorber by photoswitchable molecules. , 2015, , .		0
80	Tailored metamaterial perfect absorber. , 2015, , .		0
81	Active organic dipolar antenna. , 2016, , .		0
82	Active plasmonic coupling of metallic nanoparticles with dye. , 2016, , .		0
83	Specular Reflections: Plasmonic Metaparticles on a Blackbody Create Vivid Reflective Colors for Naked-Eye Environmental and Clinical Biodetection (<i>Adv. Mater.</i> 4/2018). <i>Advanced Materials</i> , 2018, 30, 1870026.	11.1	0
84	Carbographite Buckypaper: A Flexible Oxygenated Carbographite Nanofilamentous Buckypaper as an Amphiphilic Membrane (<i>Adv. Mater. Interfaces</i> 8/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870036.	1.9	0
85	Solar Colored Kitchen Foil: Solar Aluminum Kitchen Foils with Omnidirectional Vivid Polarizonic Colors (<i>Advanced Optical Materials</i> 15/2019). <i>Advanced Optical Materials</i> , 2019, 7, 1970058.	3.6	0
86	Comment on "Synthesizing Gold Nanoparticles Using Honey in Basic Solution under Leidenfrost Conditions To Aid Students in Reliably Reproducing Observable Color Changes". <i>Journal of Chemical Education</i> , 2020, 97, 878-879.	1.1	0