

Mady Elbahri

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5611721/publications.pdf>

Version: 2024-02-01

86
papers

3,505
citations

147801
31
h-index

138484
58
g-index

87
all docs

87
docs citations

87
times ranked

5344
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.	21.0	425
2	Graphene membranes for water desalination. <i>NPG Asia Materials</i> , 2017, 9, e427-e427.	7.9	315
3	Metal-Polymer Nanocomposites for Functional Applications. <i>Advanced Engineering Materials</i> , 2010, 12, 1177-1190.	3.5	209
4	Nanocomposite Electrospun Nanofiber Membranes for Environmental Remediation. <i>Materials</i> , 2014, 7, 1017-1045.	2.9	206
5	Review of Plasmonic Nanocomposite Metamaterial Absorber. <i>Materials</i> , 2014, 7, 1221-1248.	2.9	149
6	Strain-controlled growth of nanowires within thin-film cracks. <i>Nature Materials</i> , 2004, 3, 375-379.	27.5	140
7	Antireflective Coatings: Conventional Stacking Layers and Ultrathin Plasmonic Metasurfaces, A Mini-Review. <i>Materials</i> , 2016, 9, 497.	2.9	119
8	Green chemistry and nanofabrication in a levitated Leidenfrost drop. <i>Nature Communications</i> , 2013, 4, 2400.	12.8	114
9	Review of Metasurface Plasmonic Structural Color. <i>Plasmonics</i> , 2017, 12, 1463-1479.	3.4	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.	2.5	95
11	Plasmonic tunable metamaterial absorber as ultraviolet protection film. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	95
12	Novel compaction resistant and ductile nanocomposite nanofibrous microfiltration membranes. <i>Journal of Colloid and Interface Science</i> , 2012, 372, 6-15.	9.4	82
13	Tunable broadband plasmonic perfect absorber at visible frequency. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 769-773.	2.3	80
14	Formation of Self-organized Silver Nanocup-Type Structures and Their Plasmonic Absorption. <i>Plasmonics</i> , 2013, 8, 811-815.	3.4	75
15	A Novel Nanohybrid Nanofibrous Adsorbent for Water Purification from Dye Pollutants. <i>Materials</i> , 2016, 9, 848.	2.9	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.	7.9	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.	5.6	52
18	Extraordinarily water permeable sol-gel formed nanocomposite nanofibrous membranes. <i>Journal of Colloid and Interface Science</i> , 2012, 366, 51-56.	9.4	51

#	ARTICLE	IF	CITATIONS
19	The Electrospun Ceramic Hollow Nanofibers. <i>Nanomaterials</i> , 2017, 7, 383.	4.1	51
20	Effective Optical Properties of Plasmonic Nanocomposites. <i>Materials</i> , 2014, 7, 727-741.	2.9	50
21	Anti-Lotus Effect for Nanostructuring at the Leidenfrost Temperature. <i>Advanced Materials</i> , 2007, 19, 1262-1266.	21.0	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.	3.7	47
23	An Omnidirectional Transparent Conducting@Metal@Based Plasmonic Nanocomposite. <i>Advanced Materials</i> , 2011, 23, 1993-1997.	21.0	44
24	An Amphiphilic, Graphitic Buckypaper Capturing Enzyme Biomolecules from Water. <i>Water (Switzerland)</i> , 2019, 11, 2.	2.7	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.	7.3	38
26	Light-Controlled Conductance Switching in Azobenzene-Containing MWCNT@Polymer Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11257-11262.	8.0	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.	21.0	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.	11.2	35
29	Ups and Downs of Water Photodecolorization by Nanocomposite Polymer Nanofibers. <i>Nanomaterials</i> , 2019, 9, 250.	4.1	35
30	Bovine Serum Albumin (BSA)/polyacrylonitrile (PAN) biohybrid nanofibers coated with a biomineralized calcium deficient hydroxyapatite (HA) shell for wound dressing. <i>Materials Science and Engineering C</i> , 2020, 116, 111248.	7.3	34
31	Smart Metal@Polymer Bionanocomposites as Omnidirectional Plasmonic Black Absorber Formed by Nanofluid Filtration. <i>Advanced Functional Materials</i> , 2012, 22, 4771-4777.	14.9	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.	9.4	33
33	Switchable Plasmonic Nanocomposites. <i>Advanced Optical Materials</i> , 2019, 7, 1801101.	7.3	30
34	Equal intensity double plasmon resonance of bimetallic quasi-nanocomposites based on sandwich geometry. <i>Nanotechnology</i> , 2008, 19, 225302.	2.6	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.	3.1	27
36	Nanotheranostics: A Possible Solution for Drug-Resistant <i>Staphylococcus aureus</i> and their Biofilms?. <i>Nanomaterials</i> , 2021, 11, 82.	4.1	26

#	ARTICLE	IF	CITATIONS
37	Integration of Thin-Film Fracture-Based Nanowires into Microchip Fabrication. <i>Small</i> , 2008, 4, 2214-2221.	10.0	24
38	Light-induced conductance switching in azobenzene based near-percolated single wall carbon nanotube/polymer composites. <i>Carbon</i> , 2015, 90, 94-101.	10.3	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.	3.4	21
40	Light-Triggered Control of Plasmonic Refraction and Group Delay by Photochromic Molecular Switches. <i>ACS Photonics</i> , 2015, 2, 1327-1332.	6.6	20
41	Underwater Leidenfrost nanochemistry for creation of size-tailored zinc peroxide cancer nanotherapeutics. <i>Nature Communications</i> , 2017, 8, 15319.	12.8	20
42	Employing Thin-Film Delamination for the Formation of Shadow Masks for Nanostructure Fabrication. <i>Advanced Materials</i> , 2006, 18, 1059-1062.	21.0	19
43	Teflon AF/Ag nanocomposites with tailored optical properties. <i>Journal of Materials Research</i> , 2006, 21, 2168-2171.	2.6	19
44	A Flexible Oxygenated Carbographite Nanofilamentous Buckypaper as an Amphiphilic Membrane. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800001.	3.7	19
45	Photoswitchable molecular dipole antennas with tailored coherent coupling in glassy composite. <i>Light: Science and Applications</i> , 2015, 4, e316-e316.	16.6	18
46	Photoresponsive Transparent Conductive Metal with a Photobleaching Nose. <i>Advanced Materials</i> , 2011, 23, 4243-4247.	21.0	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.	2.2	16
48	Broadband Anti-Reflective Coating Based on Plasmonic Nanocomposite. <i>Materials</i> , 2016, 9, 636.	2.9	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.	3.3	16
50	COVID-19 Pandemic: What about the Safety of Anti-Coronavirus Nanoparticles?. <i>Nanomaterials</i> , 2021, 11, 796.	4.1	16
51	Biofunctionalized nanofibrous membranes mimicking carnivorous plants. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2013, 2, 186-193.	0.9	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.	3.3	11
53	Innovative Education and Active Teaching with the Leidenfrost Nanochemistry. <i>Journal of Chemical Education</i> , 2018, 95, 1966-1974.	2.3	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.	1.5	10

#	ARTICLE	IF	CITATIONS
55	Size-Tailored Physicochemical Properties of Monodisperse Polystyrene Nanoparticles and the Nanocomposites Made Thereof. Scientific Reports, 2020, 10, 5191.	3.3	9
56	Wenn ein Wassertropfen zum Nanolabor wird. Chemkon - Chemie Konkret, Forum Fuer Unterricht Und Didaktik, 2016, 23, 188-190.	0.4	8
57	Thermo-Plasmonics for Localized Graphitization and Welding of Polymeric Nanofibers. Materials, 2014, 7, 323-332.	2.9	7
58	Reflective Coloration from Structural Plasmonic to Disordered Polarizonic. Advanced Photonics Research, 2021, 2, 2100009.	3.6	6
59	A thin-film broadband perfect absorber based on plasmonic copper nanoparticles. Micro and Nano Engineering, 2022, 16, 100154.	2.9	6
60	Nanotunnel Formation Induced by Cu Electrodeposition on 1T-TaS[sub 2]. Journal of the Electrochemical Society, 2008, 155, D666.	2.9	5
61	Solar Aluminum Kitchen Foils with Omnidirectional Vivid Polarizonic Colors. Advanced Optical Materials, 2019, 7, 1900737.	7.3	5
62	Transflective Mesoscopic Nanoparticles Synthesized in the Leidenfrost Droplet as Black Absorbers. Advanced Materials Interfaces, 2019, 6, 1801610.	3.7	5
63	Simple Ways to Complex Nanowires and Their Application. Advances in Solid State Physics, 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. Materials Advances, 2022, 3, 474-483.	5.4	4
65	Optically switchable natural silk. Applied Physics Letters, 2015, 106, 093702.	3.3	3
66	Nachhaltige Nanochemie - Zwei einfache Green Chemistry-Synthesen für den Chemieunterricht. Chemkon - Chemie Konkret, Forum Fuer Unterricht Und Didaktik, 2017, 24, 178-184.	0.4	3
67	Arrays of wirelike microstructures of Ag with visible wavelength transparent plasmonic response at near-ultraviolet and midinfrared regions. Applied Physics Letters, 2004, 85, 1952-1954.	3.3	2
68	Metamaterials: Photo-driven Super Absorber as an Active Metamaterial with a Tunable Molecular-Plasmonic Coupling (Advanced Optical Materials 8/2014). Advanced Optical Materials, 2014, 2, 704-704.	7.3	2
69	Switchable Plasmonics: Switchable Plasmonic Nanocomposites (Advanced Optical Materials 1/2019). Advanced Optical Materials, 2019, 7, 1970004.	7.3	2
70	Reflective Coloration from Structural Plasmonic to Disordered Polarizonic. Advanced Photonics Research, 2021, 2, 2170022.	3.6	2
71	Design of Voltage control Oscillator using Nonlinear Composite Right/Left-Handed Transmission Line. Advanced Electromagnetics, 2016, 5, 15.	1.0	2
72	Perfect Plasmonic Absorber: Design of a Perfect Black Absorber at Visible Frequencies Using Plasmonic Metamaterials (Adv. Mater. 45/2011). Advanced Materials, 2011, 23, 5409-5409.	21.0	1

#	ARTICLE	IF	CITATIONS
73	Nano galaxy. Materials Today, 2012, 15, 591.	14.2	1
74	Reawakening of plasmonic nanocomposites with the polarizonic reflective coloration: from metal to molecules. Frontiers of Nanoscience, 2020, , 185-214.	0.6	1
75	Employing Thin Film Failure Mechanisms to Form Templates for Nano-electronics. Materials Research Society Symposia Proceedings, 2005, 863, B7.3-1.	0.1	0
76	Using Thin Film Stress for Nanoscaled Sensors. Materials Science Forum, 2010, 638-642, 2028-2033.	0.3	0
77	Bionanocomposites: Smart Metalâ€“Polymer Bionanocomposites as Omnidirectional Plasmonic Black Absorber Formed by Nanofluid Filtration (Adv. Funct. Mater. 22/2012). Advanced Functional Materials, 2012, 22, 4626-4626.	14.9	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 Nakedâ€“Eye Environmental and Clinical Biodetection (Adv. Mater. 4/2018). Advanced Materials, 2018, 30, 1870026.	21.0	0
84	Carbographite Buckypaper: A Flexible Oxygenated Carbographite Nanofilamentous Buckypaper as an Amphiphilic Membrane (Adv. Mater. Interfaces 8/2018). Advanced Materials Interfaces, 2018, 5, 1870036.	3.7	0
85	Solar Colored Kitchen Foil: Solar Aluminum Kitchen Foils with Omnidirectional Vivid Polarizonic Colors (Advanced Optical Materials 15/2019). Advanced Optical Materials, 2019, 7, 1970058.	7.3	0
86	Comment on â€œSynthesizing Gold Nanoparticles Using Honey in Basic Solution under Leidenfrost Conditions To Aid Students in Reliably Reproducing Observable Color Changesâ€• Journal of Chemical Education, 2020, 97, 878-879.	2.3	0