

Fayna Mammeri

List of Publications by Year in descending order

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45
papers

1,700
citations

394286

19
h-index

276775

41
g-index

45
all docs

45
docs citations

45
times ranked

2856
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties of hybrid organic–inorganic materials. <i>Journal of Materials Chemistry</i> , 2005, 15, 3787.	6.7	445
2	The polyol process: a unique method for easy access to metal nanoparticles with tailored sizes, shapes and compositions. <i>Chemical Society Reviews</i> , 2018, 47, 5187-5233.	18.7	390
3	Hairy Carbon Nanotube@Nano-Pd Heterostructures: Design, Characterization, and Application in Suzuki C–C Coupling Reaction. <i>Langmuir</i> , 2010, 26, 16115-16121.	1.6	102
4	Iron Oxide and Gold Based Magneto-Plasmonic Nanostructures for Medical Applications: A Review. <i>Nanomaterials</i> , 2018, 8, 149.	1.9	74
5	Tandem diazonium salt electroreduction and click chemistry as a novel, efficient route for grafting macromolecules to gold surface. <i>Surface Science</i> , 2009, 603, 3205-3211.	0.8	54
6	Photocatalytic activity of TiO ₂ nanofibers sensitized with ZnS quantum dots. <i>RSC Advances</i> , 2013, 3, 2572.	1.7	52
7	Elaboration and mechanical characterization of nanocomposites thin films. <i>Journal of the European Ceramic Society</i> , 2006, 26, 259-266.	2.8	49
8	Elaboration and mechanical characterization of nanocomposites thin films. <i>Journal of the European Ceramic Society</i> , 2006, 26, 267-272.	2.8	41
9	Mechanical Properties of SiO ₂ -PMMA Based Hybrid Organic-Inorganic Thin Films. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 413-417.	1.1	33
10	Synthesis, Mössbauer Characterization, and Ab Initio Modeling of Iron Oxide Nanoparticles of Medical Interest Functionalized by Dopamine. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14295-14302.	1.5	31
11	New Monofunctional POSS and Its Utilization as Dewetting Additive in Methacrylate Based Free-Standing Films. <i>Chemistry of Materials</i> , 2009, 21, 4163-4171.	3.2	27
12	Photoelectrochemical properties of nanocrystalline ZnS discrete versus continuous coating of ZnO nanorods prepared by electrodeposition. <i>RSC Advances</i> , 2016, 6, 30919-30927.	1.7	25
13	In situ monitored stretching induced α to β allotropic transformation of flexible poly(vinylidene fluoride) thin films. <i>Journal of Applied Physics</i> , 2011, 110, 084301.	2.6	24
14	The structural and the photoelectrochemical properties of ZnO–ZnS/ITO 1D hetero-junctions prepared by tandem electrodeposition and surface sulfidation: on the material processing limits. <i>RSC Advances</i> , 2018, 8, 11785-11798.	1.7	24
15	Mechanical properties of carbon nanotube–PMMA based hybrid coatings: the importance of surface chemistry. <i>RSC Advances</i> , 2012, 2, 2462.	1.7	23
16	Influence of nanoparticle size and concentration on the electroactive phase content of PVDF in PVDF-CoFe ₂ O ₄ -based hybrid films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 252-258.	0.8	23
17	Formation of Ferrimagnetic Films with Functionalized Magnetite Nanoparticles Using the Langmuir–Blodgett Technique. <i>Journal of Physical Chemistry B</i> , 2009, 113, 734-738.	1.2	22
18	Synergetic effect of CdS quantum dots and TiO ₂ nanofibers for photoelectrochemical hydrogen generation. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	22

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19	Elaboration and Rheological Investigation of Magnetic Sensitive Nanocomposite Biopolymer Networks. <i>Macromolecules</i> , 2014, 47, 3136-3144.	2.2	21
20	Carbon nanotube-poly(methyl methacrylate) hybrid films: Preparation using diazonium salt chemistry and mechanical properties. <i>Journal of Colloid and Interface Science</i> , 2014, 433, 115-122.	5.0	21
21	Star-Shaped Fe ₃ O ₄ -Au Core-Shell Nanoparticles: From Synthesis to SERS Application. <i>Nanomaterials</i> , 2020, 10, 294.	1.9	17
22	Photoelectrochemical properties of ZnS- and CdS-TiO ₂ nanostructured photocatalysts: Aqueous sulfidation as a smart route to improve catalyst stability. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 356, 489-501.	2.0	16
23	Water Vapor Photoelectrolysis in a Solid-State Photoelectrochemical Cell with TiO ₂ Nanotubes Loaded with CdS and CdSe Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46875-46885.	4.0	16
24	Time dependence of the indentation behavior of hybrid coatings. <i>Journal of Non-Crystalline Solids</i> , 2004, 345-346, 610-614.	1.5	15
25	Exchange-biased oxide-based core-shell nanoparticles produced by seed-mediated growth in polyol. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	14
26	Tailoring the magnetic properties of cobalt ferrite nanoparticles using the polyol process. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1166-1176.	1.5	14
27	Nanostructured flexible PVDF and fluoropolymer-based hybrid films. <i>Frontiers of Nanoscience</i> , 2019, 14, 67-101.	0.3	13
28	Visible-light photocatalytic performances of TiO ₂ nanobelts decorated with iron oxide nanocrystals. <i>RSC Advances</i> , 2016, 6, 114843-114851.	1.7	11
29	Surface functionalization of CoFe ₂ O ₄ nanoparticles for driving the crystallization of the electroactive P(VDF) through judicious tailoring of the hybrid interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 577, 405-411.	2.3	11
30	Photoluminescent properties of new quantum dot nanoparticles/carbon nanotubes hybrid structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 439, 138-144.	2.3	10
31	TiO ₂ nanofibers supported on Ti sheets prepared by hydrothermal corrosion: effect of the microstructure on their photochemical and photoelectrochemical properties. <i>RSC Advances</i> , 2015, 5, 95038-95046.	1.7	8
32	A tandem polyol process and ATRP used to design new processable hybrid exchange-biased Co _x Fe _{3-x} O ₄ @CoO@PMMA nanoparticles. <i>RSC Advances</i> , 2016, 6, 49973-49979.	1.7	8
33	An easy-to-achieve approach for the fabrication of CdS QDs sensitized TiO ₂ nanotubes and their enhanced photoelectrochemical performance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 337-344.	2.0	8
34	Manganese oxide nanoparticles prepared by olive leaf extract-mediated wet chemistry and their supercapacitor properties. <i>Solid State Sciences</i> , 2021, 113, 106551.	1.5	7
35	Rheological investigation of magnetic sensitive biopolymer composites: effect of the ligand grafting of magnetic nanoparticles. <i>Rheologica Acta</i> , 2020, 59, 165-176.	1.1	6
36	Preparation of Fe ₃ O ₄ -Ag Nanocomposites with Silver Petals for SERS Application. <i>Nanomaterials</i> , 2021, 11, 1288.	1.9	6

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37	Granular Fe ₃ O ₄ -CoO hetero-nanostructures produced by in situ seed mediated growth in polyol: magnetic properties and chemical stability. <i>Materials Research Express</i> , 2014, 1, 025035.	0.8	5
38	Enhancement of the photoelectrochemical properties of TiO ₂ nanofibers supported on Ti sheets by polyol-made CdSe quantum-dots impregnation. <i>Materials Letters</i> , 2020, 273, 127934.	1.3	5
39	Modification and Characterization of Si-Based Nanobuilding Blocks Precursors for Hybrid Materials. <i>Materials Research Society Symposia Proceedings</i> , 2004, 847, 180.	0.1	4
40	Design of CdS Quantum Dots / Multi-Walled Carbon Nanotubes Hybrid Structures for Photovoltaic Applications. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1359, 115.	0.1	1
41	Design and Functionalization of Magnetic Core-Shell Oxide Nanoparticles Exhibiting Exchange Bias Features. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1359, 175.	0.1	1
42	Methods for preparing polymer-decorated single exchange-biased magnetic nanoparticles for application in flexible polymer-based films. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 408-417.	1.5	1
43	Design of Functionalized Fe ₃ O ₄ Nanoparticles for Elaboration of Nanostructured Films with Magnetic Properties. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1007, 1.	0.1	0
44	Mechanical Properties of Polymer-Based Hybrid Films: Tailoring the Hybrid Interface Using Soft Chemistry. <i>Materials Science Forum</i> , 2016, 879, 1063-1067.	0.3	0
45	Low dye content efficient dye-sensitized solar cells using carbon doped-titania paste from convenient green synthetic process. <i>Inorganica Chimica Acta</i> , 2021, 525, 120487.	1.2	0