

Michael Molinari

List of Publications by Year in descending order

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118
papers

2,374
citations

218592

26
h-index

265120

42
g-index

119
all docs

119
docs citations

119
times ranked

3336
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogels Incorporating GdDOTA: Towards Highly Efficient Dual MRI Contrast Agents. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9119-9122.	7.2	134
2	Langmuir-Blodgett films of cellulose nanocrystals: Preparation and characterization. <i>Journal of Colloid and Interface Science</i> , 2007, 316, 388-397.	5.0	111
3	Growth of Silicon Nanowires of Controlled Diameters by Electrodeposition in Ionic Liquid at Room Temperature. <i>Nano Letters</i> , 2008, 8, 3468-3474.	4.5	111
4	Template assisted electrodeposition of germanium and silicon nanowires in an ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6233.	1.3	92
5	Resonance Energy Transfer Improves the Biological Function of Bacteriorhodopsin within a Hybrid Material Built from Purple Membranes and Semiconductor Quantum Dots. <i>Nano Letters</i> , 2010, 10, 2640-2648.	4.5	80
6	A strain-induced exciton transition energy shift in CdSe nanoplatelets: the impact of an organic ligand shell. <i>Nanoscale</i> , 2017, 9, 18042-18053.	2.8	71
7	Evolution with the annealing treatments of the photoluminescence mechanisms in a-SiNx:H alloys prepared by reactive evaporation. <i>Journal of Applied Physics</i> , 2007, 101, 123532.	1.1	61
8	Organosolv lignin as natural grafting additive to improve the water resistance of films using cellulose nanocrystals. <i>Chemical Engineering Journal</i> , 2015, 264, 780-788.	6.6	52
9	Visible photoluminescence in amorphous SiOx thin films prepared by silicon evaporation under a molecular oxygen atmosphere. <i>Applied Physics Letters</i> , 2003, 82, 3877-3879.	1.5	49
10	Temperature stability for silicon-based photonic band-gap structures. <i>Applied Physics Letters</i> , 2003, 83, 1980-1982.	1.5	48
11	Engineering a Robust Photovoltaic Device with Quantum Dots and Bacteriorhodopsin. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16710-16717.	1.5	47
12	Visible photoluminescence in amorphous SiNx thin films prepared by reactive evaporation. <i>Applied Physics Letters</i> , 2000, 77, 3499-3501.	1.5	43
13	Characterization by Atomic Force Microscopy of the Nanoheterogeneities Produced by the Radiation-Induced Cross-Linking Polymerization of Aromatic Diacrylates. <i>Macromolecules</i> , 2010, 43, 8121-8127.	2.2	43
14	High speed atomic force microscopy to investigate the interactions between toxic β -galactosidase peptides and model membranes in real time: impact of the membrane composition. <i>Nanoscale</i> , 2019, 11, 7229-7238.	2.8	43
15	Encapsulated Ruthenium(II) Complexes in Biocompatible Poly(D,L-lactide-glycolide) Nanoparticles for Application in Photodynamic Therapy. <i>ChemPlusChem</i> , 2014, 79, 171-180.	1.3	39
16	Electrochemical synthesis of 1D core-shell Si/TiO2 nanotubes for lithium ion batteries. <i>Journal of Power Sources</i> , 2017, 361, 243-248.	4.0	39
17	Interaction of β -galactosidase peptide or their variant with model membrane of different composition probed by infrared nanospectroscopy. <i>Nanoscale</i> , 2018, 10, 936-940.	2.8	35
18	Salmeterol Restores Secretory Functions in Cystic Fibrosis Airway Submucosal Gland Serous Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009, 40, 388-397.	1.4	30

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19	Etoposide encapsulation in surface-modified poly(lactide-co-glycolide) nanoparticles strongly enhances glioma antitumor efficiency. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1319-1327.	2.1	30
20	Structure and optical properties of plant cell wall bio-inspired materials: Cellulose-lignin multilayer nanocomposites. <i>Comptes Rendus - Biologies</i> , 2011, 334, 839-850.	0.1	29
21	Comparative Efficiency of Energy Transfer from CdSe-ZnS Quantum Dots or Nanorods to Organic Dye Molecules. <i>ChemPhysChem</i> , 2012, 13, 330-335.	1.0	29
22	Tuning the composition of biocompatible Gd nanohydrogels to achieve hypersensitive dual T ₁ /T ₂ MRI contrast agents. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6397-6405.	2.9	29
23	Nanoparticles With a Specific Size and Surface Charge Promote Disruption of the Secondary Structure and Amyloid-Like Fibrillation of Human Insulin Under Physiological Conditions. <i>Frontiers in Chemistry</i> , 2019, 7, 480.	1.8	29
24	Improvement of the photoluminescence properties in a-SiNx films by introduction of hydrogen. <i>Applied Physics Letters</i> , 2001, 79, 2172-2174.	1.5	28
25	Calorimetric Characterization of the Heterogeneities Produced by the Radiation-Induced Cross-Linking Polymerization of Aromatic Diacrylates. <i>Macromolecules</i> , 2010, 43, 3757-3763.	2.2	27
26	Characterizations of Ohmic and Schottky-behaving contacts of a single ZnO nanowire. <i>Nanotechnology</i> , 2013, 24, 415202.	1.3	27
27	Atomic force microscopy reveals how relative humidity impacts the Young's modulus of lignocellulosic polymers and their adhesion with cellulose nanocrystals at the nanoscale. <i>International Journal of Biological Macromolecules</i> , 2020, 147, 1064-1075.	3.6	27
28	Bioinspired lignocellulosic films to understand the mechanical properties of lignified plant cell walls at nanoscale. <i>Scientific Reports</i> , 2017, 7, 44065.	1.6	26
29	Langmuir-Blodgett Procedure to Precisely Control the Coverage of Functionalized AFM Cantilevers for SMFS Measurements: Application with Cellulose Nanocrystals. <i>Langmuir</i> , 2018, 34, 9376-9386.	1.6	26
30	High Speed AFM and NanoInfrared Spectroscopy Investigation of 42 Peptide Variants and Their Interaction With POPC/SM/Chol/GM1 Model Membranes. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 571696.	1.6	26
31	Effects of the amorphous-crystalline transition on the luminescence of quantum confined silicon nanoclusters. <i>Europhysics Letters</i> , 2004, 66, 674-679.	0.7	25
32	Charge-controlled assembling of bacteriorhodopsin and semiconductor quantum dots for fluorescence resonance energy transfer-based nanophotonic applications. <i>Applied Physics Letters</i> , 2011, 98, 013703.	1.5	25
33	Dense Brushes of Tilted Metallic Nanorods Grown onto Stretchable Substrates for Optical Strain Sensing. <i>ACS Applied Nano Materials</i> , 2018, 1, 2347-2355.	2.4	25
34	Evolution with annealing treatments of the size of silicon nanocrystallites embedded in a SiNx matrix and correlation with optical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 101, 186-189.	1.7	23
35	Effect of oxidation on charge localization and transport in a single layer of silicon nanocrystals. <i>Journal of Applied Physics</i> , 2004, 96, 654-660.	1.1	23
36	Linear and nonlinear optical effects induced by energy transfer from semiconductor nanoparticles to photosynthetic biological systems. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2014, 20, 17-32.	5.6	23

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37	Evaluation of mTHPC-loaded PLGA nanoparticles for in vitro photodynamic therapy on C6 glioma cell line. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019, 25, 448-455.	1.3	23
38	Structural characterization and <i>in vivo</i> pro-tumor properties of a highly conserved matrikine. <i>Oncotarget</i> , 2018, 9, 17839-17857.	0.8	23
39	Low electric field strength self-organization of anodic TiO ₂ nanotubes in diethylene glycol electrolyte. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6655-6661.	5.2	22
40	Unveiling the impact of embedding resins on the physicochemical traits of wood cell walls with subcellular functional probing. <i>Composites Science and Technology</i> , 2021, 201, 108485.	3.8	21
41	Chemical substitution of Cd ions by Hg in CdSe nanorods and nanodots: Spectroscopic and structural examination. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 744-749.	1.7	20
42	Electrodeposition of silicon nanotubes at room temperature using ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16446.	1.3	20
43	Photoluminescence quantum yield of CdSe-ZnS/CdS/ZnS core-multishell quantum dots approaches 100% due to enhancement of charge carrier confinement. <i>Proceedings of SPIE</i> , 2014, , .	0.8	20
44	Impact of lignin on water sorption properties of bioinspired self-assemblies of lignocellulosic polymers. <i>European Polymer Journal</i> , 2015, 64, 21-35.	2.6	20
45	All electrochemical process for synthesis of Si coating on TiO ₂ nanotubes as durable negative electrode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2018, 393, 43-53.	4.0	20
46	Analysis of the effect of LRP-1 silencing on the invasive potential of cancer cells by nanomechanical probing and adhesion force measurements using atomic force microscopy. <i>Nanoscale</i> , 2016, 8, 7144-7154.	2.8	19
47	A novel design of a scanning probe microscope integrated with an ultramicrotome for serial block-face nanotomography. <i>Review of Scientific Instruments</i> , 2017, 88, 023701.	0.6	19
48	Biocompatibility of Gd-Loaded Chitosan-Hyaluronic Acid Nanogels as Contrast Agents for Magnetic Resonance Cancer Imaging. <i>Nanomaterials</i> , 2018, 8, 201.	1.9	19
49	Dual Antioxidant Properties and Organic Radical Stabilization in Cellulose Nanocomposite Films Functionalized by In Situ Polymerization of Coniferyl Alcohol. <i>Biomacromolecules</i> , 2020, 21, 3163-3175.	2.6	19
50	Imaging the electric properties of InAs•InP(001) quantum dots capped with a thin InP layer by conductive atomic force microscopy: Evidence of memory effect. <i>Applied Physics Letters</i> , 2006, 89, 112115.	1.5	18
51	Nano-biophotonic hybrid materials with controlled FRET efficiency engineered from quantum dots and bacteriorhodopsin. <i>Laser Physics Letters</i> , 2013, 10, 085901.	0.6	18
52	An instrumental approach to combining confocal microspectroscopy and 3D scanning probe nanotomography. <i>Ultramicroscopy</i> , 2017, 182, 118-123.	0.8	18
53	Influence of the polarity of the matrix on the breakage mechanisms of lignocellulosic fibers during twin-screw extrusion. <i>Polymer Composites</i> , 2020, 41, 1106-1117.	2.3	18
54	Characterization of Gd loaded chitosan-TPP nanohydrogels by a multi-technique approach combining dynamic light scattering (DLS), asymmetrical flow-field-fractionation (AF4) and atomic force microscopy (AFM) and design of positive contrast agents for molecular resonance imaging (MRI). <i>Nanotechnology</i> , 2017, 28, 055705.	1.3	17

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55	Development and physicochemical characterization of copper complexes-loaded PLGA nanoparticles. <i>International Journal of Pharmaceutics</i> , 2009, 379, 226-234.	2.6	16
56	Ohmic contact on single ZnO nanowires grown by MOCVD. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1292-1296.	0.8	15
57	A new magnetic resonance imaging contrast agent loaded into poly(lacide-co-glycolide) nanoparticles for long-term detection of tumors. <i>Nanotechnology</i> , 2014, 25, 445103.	1.3	15
58	Self-organization of TiO ₂ nanotubes in mono-, di- and tri-ethylene glycol electrolytes. <i>Electrochimica Acta</i> , 2016, 204, 287-293.	2.6	15
59	Single step electrodeposition process using ionic liquid to grow highly luminescent silicon/rare earth (Er, Tb) thin films with tunable composition. <i>RSC Advances</i> , 2018, 8, 3789-3797.	1.7	15
60	Modeling Progression of Fluorescent Probes in Bioinspired Lignocellulosic Assemblies. <i>Biomacromolecules</i> , 2013, 14, 2196-2205.	2.6	14
61	Role of electrochemical process parameters on the electrodeposition of silicon from 1-butyl-1-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide ionic liquid. <i>Electrochimica Acta</i> , 2018, 265, 166-174.	2.6	14
62	Electrodeposition at room temperature of amorphous silicon and germanium nanowires in ionic liquid. <i>IOP Conference Series: Materials Science and Engineering</i> , 2009, 6, 012012.	0.3	12
63	Band-Gap Determination of the Native Oxide Capping Quantum Dots by Use of Different Kinds of Conductive AFM Probes: Example of InAs/GaAs Quantum Dots. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 1455-1459.	1.6	12
64	Effect of the Interplay of Composition and Environmental Humidity on the Nanomechanical Properties of Hemp Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6381-6390.	3.2	12
65	Preparation of Ordered Films of Cellulose Nanocrystals. <i>ACS Symposium Series</i> , 2010, , 115-136.	0.5	11
66	Biocompatible nanoparticles and gadolinium complexes for MRI applications. <i>Comptes Rendus Chimie</i> , 2013, 16, 531-539.	0.2	11
67	Silicon Wafer Functionalization with a Luminescent Tb(III) Coordination Complex: Synthesis, Characterization, and Application to the Optical Detection of NO in the Gas Phase. <i>Molecules</i> , 2019, 24, 1914.	1.7	11
68	Real Time and Quantitative Imaging of Lignocellulosic Films Hydrolysis by Atomic Force Microscopy Reveals Lignin Recalcitrance at Nanoscale. <i>Biomacromolecules</i> , 2019, 20, 515-527.	2.6	11
69	Correlation between structure and photoluminescence in amorphous hydrogenated silicon nitride alloys. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 16, 445-449.	1.3	10
70	Electrodeposition and Characterization of CdSe Semiconducting Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 2022-2028.	0.9	10
71	Nanoscale heterogeneities in radiation-cured diacrylate networks: Weakness or asset?. <i>Radiation Physics and Chemistry</i> , 2013, 84, 79-84.	1.4	10
72	Quantitative characterization of single-cell adhesion properties by atomic force microscopy using protein-functionalized microbeads. <i>Journal of Molecular Recognition</i> , 2019, 32, e2767.	1.1	10

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73	Carbamylation of elastic fibers is a molecular substratum of aortic stiffness. <i>Scientific Reports</i> , 2021, 11, 17827.	1.6	10
74	Thermo-mechanical properties and structural features of diglycidyl ether of BIS phenol a cationically cured by electron beam radiation. <i>Radiation Physics and Chemistry</i> , 2012, 81, 1297-1302.	1.4	9
75	Development of an improved Kelvin probe force microscope for accurate local potential measurements on biased electronic devices. <i>Journal of Microscopy</i> , 2017, 267, 272-279.	0.8	9
76	A gentle approach to investigate the influence of LRP-1 silencing on the migratory behavior of breast cancer cells by atomic force microscopy and dynamic cell studies. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 18, 359-370.	1.7	9
77	Revealing the elasticity of an individual aortic fiber during ageing at nanoscale by in situ atomic force microscopy. <i>Nanoscale</i> , 2021, 13, 1124-1133.	2.8	9
78	Adsorption of polyanions on nanostructured polypyrrole submonolayer grafted on semiconducting transparent support. <i>Journal of Materials Science</i> , 2008, 43, 3486-3490.	1.7	8
79	Microstructure aspects of radiation-cured networks: Cationically polymerized aromatic epoxy resins. <i>Radiation Physics and Chemistry</i> , 2018, 143, 20-26.	1.4	8
80	Study of the photoluminescence of amorphous and crystalline silicon clusters in SiO _x thin films. <i>Optical Materials</i> , 2005, 27, 983-987.	1.7	7
81	Interaction of Tau construct K18 with model lipid membranes. <i>Nanoscale Advances</i> , 2021, 3, 4244-4253.	2.2	7
82	Photoluminescence and electroluminescence of amorphous SiO _x films prepared by reactive evaporation of silicon with oxygen. <i>Optical Materials</i> , 2005, 27, 1074-1078.	1.7	6
83	DNA oligonucleotide synthesis in mesoporous silicon for biosensing applications. , 2009, , .		6
84	Vectorization of copper complexes via biocompatible and biodegradable PLGA nanoparticles. <i>Nanotechnology</i> , 2010, 21, 165101.	1.3	6
85	Temperature and pH influences on the structural and the emission properties of electrodeposited CdSe nanowires. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1041-1047.	1.2	6
86	Growth of ZnO nanostructures on Si(111), Al ₂ O ₃ , ZnO and steel substrates by pulsed laser deposition. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1317-1321.	0.8	6
87	Growth of Homogeneous Luminescent Silicon-Terbium Nanowires by One-Step Electrodeposition in Ionic Liquids. <i>Nanomaterials</i> , 2020, 10, 2390.	1.9	6
88	Interplay of matrix stiffness and stress relaxation in directing osteogenic differentiation of mesenchymal stem cells. <i>Biomaterials Science</i> , 2022, 10, 4978-4996.	2.6	6
89	Microstructural compositional, and optical characterization of GaN grown by metal organic vapor phase epitaxy on ZnO epilayers. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 1655.	1.3	5
90	Energy transfer processes in semiconductor quantum dots: bacteriorhodopsin hybrid system. , 2009, , .		5

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91	Epitaxial MOVPE growth of highly c-axis oriented InGaN/GaN films on ZnO-buffered Si (111) substrates. Proceedings of SPIE, 2010, , .	0.8	5
92	Strong Room-Temperature Visible Photoluminescence of Amorphous Si Nanowires Prepared by Electrodeposition in Ionic Liquids. ACS Photonics, 2018, 5, 2652-2660.	3.2	5
93	Preparation of dense, smooth and homogeneous amorphous silicon nitride films by nitrogen-ion-beam assisted evaporation. Journal Physics D: Applied Physics, 2008, 41, 175410.	1.3	4
94	Magnetic properties of nanocrystallized nickel films on gold substrate deposited by cathodic voltammetry: Scan rate induced effects. Journal of Applied Physics, 2011, 109, 024904.	1.1	4
95	Core-shell GaN/ZnO moth-eye nanostructure arrays grown on a-SiO ₂ /Si (1 1 1) as a basis for improved InGaN-based photovoltaics and LEDs. Photonics and Nanostructures - Fundamentals and Applications, 2015, 15, 53-58.	1.0	4
96	Low-diluted Phenacetinum disrupted the melanoma cancer cell migration. Scientific Reports, 2019, 9, 9109.	1.6	4
97	A carbon nanofiber glass composite with high electrical conductivity. International Journal of Applied Glass Science, 2020, 11, 590-600.	1.0	4
98	Optical properties of gold nanorods macro-structure: a numerical study. Photonics Letters of Poland, 2017, 9, 23.	0.2	4
99	Synthesis and Characterization of Conjugated Hyaluronic Acids. Application to Stability Studies of Chitosan-Hyaluronic Acid Nanogels Based on Fluorescence Resonance Energy Transfer. Gels, 2022, 8, 182.	2.1	4
100	Local electronic transport through InAs/InP(0%0%1) quantum dots capped with a thin InP layer studied by an AFM conductive probe. Semiconductor Science and Technology, 2007, 22, 755-762.	1.0	3
101	Chemical lift-off and direct wafer bonding of GaN/InGaN P-N structures grown on ZnO. Journal of Crystal Growth, 2016, 435, 105-109.	0.7	3
102	Development of a shear-force scanning near-field cathodoluminescence microscope for characterization of nanostructures' optical properties. Journal of Microscopy, 2016, 263, 357-364.	0.8	2
103	Pyclen-based Gd complex with ionisable side-chain as a contrastophore for the design of hypersensitive MRI nanoprobes: Synthesis and relaxation studies. Results in Chemistry, 2021, 3, 100237.	0.9	2
104	Actin Bundle Nanomechanics and Organization Are Modulated by Macromolecular Crowding and Electrostatic Interactions. Frontiers in Molecular Biosciences, 2021, 8, 760950.	1.6	2
105	Control and elimination of the effect of ambient temperature fluctuations on photonic bandgap device operation. , 2004, , .		1
106	Electrodeposition and detailed characterization of semiconductor nanowires. , 2006, , .		1
107	Semiconductor quantum dots affect fluidity of purple membrane from <i>Halobacterium salinarum</i> through disruption of bacteriorhodopsin trimer organization. Proceedings of SPIE, 2012, , .	0.8	1
108	Extension of the spectral range of bacteriorhodopsin functional activity by energy transfer from quantum dots. , 2012, , .		1

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109	Controlled FRET efficiency in nano-bio hybrid materials made from semiconductor quantum dots and bacteriorhodopsin. , 2012, , .		1
110	Flexible plasmonic and strain sensors: fabrication, design and perspectives. Journal of Physics: Conference Series, 2020, 1461, 012096.	0.3	1
111	Using AlN Coatings to Protect the Surface of AlGaAs/GaAs System Heterostructures from Interaction with Atmospheric Oxygen. Technical Physics Letters, 2020, 46, 268-271.	0.2	1
112	Synthesis of Core-Shell Al/tiO ₂ Nanotube Composites by Electrochemical Methods. Journal of the Electrochemical Society, 2020, 167, 112503.	1.3	1
113	Fluorescent chitosan-based nanohydrogels and encapsulation of gadolinium MRI contrast agent for magneto-optical imaging. Carbohydrate Polymer Technologies and Applications, 2021, 2, 100104.	1.6	1
114	Use of PLD-grown Moth-eye ZnO Nanostructures as Templates for MOVPE Growth of InGaN-Based Photovoltaics. , 2011, , .		0
115	Substrate and film structure impacts on adhesion properties between lignocellulosic polymers. Materials Research Society Symposia Proceedings, 2012, 1422, 1.	0.1	0
116	Nanoscale optical and electrical characterizations of ZnO nanostructures by near-field microscopy. Proceedings of SPIE, 2014, , .	0.8	0
117	Use of PLD-grown Moth-eye ZnO Nanostructures as Templates for MOVPE Growth of InGaN-Based Photovoltaics. , 2011, , .		0
118	Chapter 5 Energy Transfer Mechanisms in Nanobiohybrid Structures Based on Quantum Dots and Photosensitive Membrane Proteins. , 2017, , 167-206.		0