

Michael Molinari

List of Publications by Year in descending order

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118
papers

2,374
citations

218381

26
h-index

264894

42
g-index

119
all docs

119
docs citations

119
times ranked

3336
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Characterization of Conjugated Hyaluronic Acids. Application to Stability Studies of Chitosan-Hyaluronic Acid Nanogels Based on Fluorescence Resonance Energy Transfer. <i>Gels</i> , 2022, 8, 182.	2.1	4
2	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
3	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
4	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
5	Interaction of Tau construct K18 with model lipid membranes. <i>Nanoscale Advances</i> , 2021, 3, 4244-4253.	2.2	7
6	Carbamylation of elastic fibers is a molecular substratum of aortic stiffness. <i>Scientific Reports</i> , 2021, 11, 17827.	1.6	10
7	Fluorescent chitosan-based nanohydrogels and encapsulation of gadolinium MRI contrast agent for magneto-optical imaging. <i>Carbohydrate Polymer Technologies and Applications</i> , 2021, 2, 100104.	1.6	1
8	Pyclen-based Gd complex with ionisable side-chain as a contrastophore for the design of hypersensitive MRI nanoprobe: Synthesis and relaxation studies. <i>Results in Chemistry</i> , 2021, 3, 100237.	0.9	2
9	Actin Bundle Nanomechanics and Organization Are Modulated by Macromolecular Crowding and Electrostatic Interactions. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 760950.	1.6	2
10	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
11	A carbon nanofiber glass composite with high electrical conductivity. <i>International Journal of Applied Glass Science</i> , 2020, 11, 590-600.	1.0	4
12	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
13	Flexible plasmonic and strain sensors: fabrication, design and perspectives. <i>Journal of Physics: Conference Series</i> , 2020, 1461, 012096.	0.3	1
14	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
15	Growth of Homogeneous Luminescent Silicon-Terbium Nanowires by One-Step Electrodeposition in Ionic Liquids. <i>Nanomaterials</i> , 2020, 10, 2390.	1.9	6
16	Using AlN Coatings to Protect the Surface of AlGaAs/GaAs System Heterostructures from Interaction with Atmospheric Oxygen. <i>Technical Physics Letters</i> , 2020, 46, 268-271.	0.2	1
17	Synthesis of Core-Shell Al/tiO ₂ Nanotube Composites by Electrochemical Methods. <i>Journal of the Electrochemical Society</i> , 2020, 167, 112503.	1.3	1
18	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

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19	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
20	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
21	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
22	Low-diluted Phenacetinum disrupted the melanoma cancer cell migration. <i>Scientific Reports</i> , 2019, 9, 9109.	1.6	4
23	High speed atomic force microscopy to investigate the interactions between toxic A β ₁₋₄₂ peptides and model membranes in real time: impact of the membrane composition. <i>Nanoscale</i> , 2019, 11, 7229-7238.	2.8	43
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	Interaction of A β ₁₋₄₂ peptide or their variant with model membrane of different composition probed by infrared nanospectroscopy. <i>Nanoscale</i> , 2018, 10, 936-940.	2.8	35
32	Microstructure aspects of radiation-cured networks: Cationically polymerized aromatic epoxy resins. <i>Radiation Physics and Chemistry</i> , 2018, 143, 20-26.	1.4	8
33	Strong Room-Temperature Visible Photoluminescence of Amorphous Si Nanowires Prepared by Electrodeposition in Ionic Liquids. <i>ACS Photonics</i> , 2018, 5, 2652-2660.	3.2	5
34	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
35	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
36	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

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37	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
38	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
39	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
40	An instrumental approach to combining confocal microspectroscopy and 3D scanning probe nanotomography. <i>Ultramicroscopy</i> , 2017, 182, 118-123.	0.8	18
41	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
42	Characterization of Gd loaded chitosan-TPP nanohydrogels by a multi-technique approach combining dynamic light scattering (DLS), asymmetrical flow-field-flow-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
43	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
44	Electrochemical synthesis of 1D core-shell Si/TiO ₂ nanotubes for lithium ion batteries. <i>Journal of Power Sources</i> , 2017, 361, 243-248.	4.0	39
45	Optical properties of gold nanorods macro-structure: a numerical study. <i>Photonics Letters of Poland</i> , 2017, 9, 23.	0.2	4
46	Chapter 5 Energy Transfer Mechanisms in Nanobiohybrid Structures Based on Quantum Dots and Photosensitive Membrane Proteins. , 2017, , 167-206.		0
47	Development of a shear-force scanning near-field cathodoluminescence microscope for characterization of nanostructures' optical properties. <i>Journal of Microscopy</i> , 2016, 263, 357-364.	0.8	2
48	Chemical lift-off and direct wafer bonding of GaN/InGaN P-N structures grown on ZnO. <i>Journal of Crystal Growth</i> , 2016, 435, 105-109.	0.7	3
49	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
50	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
51	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
52	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. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2015, 15, 53-58.	1.0	4
53	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
54	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

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55	A new magnetic resonance imaging contrast agent loaded into poly(lactide-co-glycolide) nanoparticles for long-term detection of tumors. <i>Nanotechnology</i> , 2014, 25, 445103.	1.3	15
56	Encapsulated Ruthenium(II) Complexes in Biocompatible Poly(lactide-co-glycolide) Nanoparticles for Application in Photodynamic Therapy. <i>ChemPlusChem</i> , 2014, 79, 171-180.	1.3	39
57	Nanoscale optical and electrical characterizations of ZnO nanostructures by near-field microscopy. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
58	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
59	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
60	Engineering a Robust Photovoltaic Device with Quantum Dots and Bacteriorhodopsin. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16710-16717.	1.5	47
61	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
62	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
63	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
64	Characterizations of Ohmic and Schottky-behaving contacts of a single ZnO nanowire. <i>Nanotechnology</i> , 2013, 24, 415202.	1.3	27
65	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
66	Electrodeposition of silicon nanotubes at room temperature using ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16446.	1.3	20
67	Nanoscale heterogeneities in radiation-cured diacrylate networks: Weakness or asset?. <i>Radiation Physics and Chemistry</i> , 2013, 84, 79-84.	1.4	10
68	Modeling Progression of Fluorescent Probes in Bioinspired Lignocellulosic Assemblies. <i>Biomacromolecules</i> , 2013, 14, 2196-2205.	2.6	14
69	Biocompatible nanoparticles and gadolinium complexes for MRI applications. <i>Comptes Rendus Chimie</i> , 2013, 16, 531-539.	0.2	11
70	Growth of ZnO nanostructures on Si(111), Al_2O_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
71	Substrate and film structure impacts on adhesion properties between lignocellulosic polymers. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1422, 1.	0.1	0
72	Semiconductor quantum dots affect fluidity of purple membrane from <i>Halobacterium salinarum</i> through disruption of bacteriorhodopsin trimer organization. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1

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73	Extension of the spectral range of bacteriorhodopsin functional activity by energy transfer from quantum dots. , 2012, , .		1
74	Thermo-mechanical properties and structural features of diglycidyl ether of BIS phenol a cationically cured by electron beam radiation. Radiation Physics and Chemistry, 2012, 81, 1297-1302.	1.4	9
75	Controlled FRET efficiency in nano-bio hybrid materials made from semiconductor quantum dots and bacteriorhodopsin. , 2012, , .		1
76	Hydrogels Incorporating GdDOTA: Towards Highly Efficient Dual <i>T</i>₁<i>T</i>₂ MRI Contrast Agents. Angewandte Chemie - International Edition, 2012, 51, 9119-9122.	7.2	134
77	Temperature and pH influences on the structural and the emission properties of electrodeposited CdSe nanowires. Journal of Solid State Electrochemistry, 2012, 16, 1041-1047.	1.2	6
78	Chemical substitution of Cd ions by Hg in CdSe nanorods and nanodots: Spectroscopic and structural examination. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 744-749.	1.7	20
79	Comparative Efficiency of Energy Transfer from CdSeâ€“ZnS Quantum Dots or Nanorods to Organic Dye Molecules. ChemPhysChem, 2012, 13, 330-335.	1.0	29
80	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
81	Structure and optical properties of plant cell wall bio-inspired materials: Celluloseâ€“lignin multilayer nanocomposites. Comptes Rendus - Biologies, 2011, 334, 839-850.	0.1	29
82	Use of PLD-grown Moth-eye ZnO Nanostructures as Templates for MOVPE Growth of InGaN-Based Photovoltaics. , 2011, , .		0
83	Charge-controlled assembling of bacteriorhodopsin and semiconductor quantum dots for fluorescence resonance energy transfer-based nanophotonic applications. Applied Physics Letters, 2011, 98, 013703.	1.5	25
84	Use of PLD-grown Moth-eye ZnO Nanostructures as Templates for MOVPE Growth of InGaN-Based Photovoltaics. , 2011, , .		0
85	Epitaxial MOVPE growth of highly c-axis oriented InGaN/GaN films on ZnO-buffered Si (111) substrates. Proceedings of SPIE, 2010, , .	0.8	5
86	Resonance Energy Transfer Improves the Biological Function of Bacteriorhodopsin within a Hybrid Material Built from Purple Membranes and Semiconductor Quantum Dots. Nano Letters, 2010, 10, 2640-2648.	4.5	80
87	Preparation of Ordered Films of Cellulose Nanocrystals. ACS Symposium Series, 2010, , 115-136.	0.5	11
88	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. IEEE Transactions on Electron Devices, 2010, 57, 1455-1459.	1.6	12
89	Vectorization of copper complexes via biocompatible and biodegradable PLGA nanoparticles. Nanotechnology, 2010, 21, 165101.	1.3	6
90	Calorimetric Characterization of the Heterogeneities Produced by the Radiation-Induced Cross-Linking Polymerization of Aromatic Diacrylates. Macromolecules, 2010, 43, 3757-3763.	2.2	27

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91	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
92	DNA oligonucleotide synthesis in mesoporous silicon for biosensing applications. , 2009, , .		6
93	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
94	Energy transfer processes in semiconductor quantum dots: bacteriorhodopsin hybrid system. , 2009, , .		5
95	Development and physicochemical characterization of copper complexes-loaded PLGA nanoparticles. <i>International Journal of Pharmaceutics</i> , 2009, 379, 226-234.	2.6	16
96	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
97	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
98	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
99	Template assisted electrodeposition of germanium and silicon nanowires in an ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6233.	1.3	92
100	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
101	Preparation of dense, smooth and homogeneous amorphous silicon nitride films by nitrogen-ion-beam assisted evaporation. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 175410.	1.3	4
102	Electrodeposition and Characterization of CdSe Semiconducting Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 2022-2028.	0.9	10
103	Local electronic transport through InAs/InP(001) quantum dots capped with a thin InP layer studied by an AFM conductive probe. <i>Semiconductor Science and Technology</i> , 2007, 22, 755-762.	1.0	3
104	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
105	Langmuir-Blodgett films of cellulose nanocrystals: Preparation and characterization. <i>Journal of Colloid and Interface Science</i> , 2007, 316, 388-397.	5.0	111
106	Electrodeposition and detailed characterization of semiconductor nanowires. , 2006, , .		1
107	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
108	Study of the photoluminescence of amorphous and crystalline silicon clusters in SiOx thin films. <i>Optical Materials</i> , 2005, 27, 983-987.	1.7	7

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109	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
110	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
111	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
112	Control and elimination of the effect of ambient temperature fluctuations on photonic bandgap device operation. , 2004, , .		1
113	Evolution with annealing treatments of the size of silicon nanocrystallites embedded in a SiN _x 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
114	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
115	Temperature stability for silicon-based photonic band-gap structures. <i>Applied Physics Letters</i> , 2003, 83, 1980-1982.	1.5	48
116	Visible photoluminescence in amorphous SiO _x thin films prepared by silicon evaporation under a molecular oxygen atmosphere. <i>Applied Physics Letters</i> , 2003, 82, 3877-3879.	1.5	49
117	Improvement of the photoluminescence properties in a-SiN _x films by introduction of hydrogen. <i>Applied Physics Letters</i> , 2001, 79, 2172-2174.	1.5	28
118	Visible photoluminescence in amorphous SiN _x thin films prepared by reactive evaporation. <i>Applied Physics Letters</i> , 2000, 77, 3499-3501.	1.5	43