

Rosaria D Amato

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

807
citations

17
h-index

27
g-index

53
ext. papers

899
ext. citations

3.8
avg, IF

3.64
L-index

#	Paper	IF	Citations
46	Humidity Sensing by Chitosan-Coated Fibre Bragg Gratings (FBG). <i>Sensors</i> , 2021 , 21,	3.8	7
45	Feasibility assessment of an FBG-based soft sensor embedded into a single-use surgical mask for respiratory monitoring 2021 ,		1
44	A Magnetic Resonance-Compatible Wearable Device Based on Functionalized Fiber Optic Sensor for Respiratory Monitoring. <i>IEEE Sensors Journal</i> , 2021 , 21, 14418-14425	4	11
43	Agar-Coated Fiber Bragg Grating Sensor for Relative Humidity Measurements: Influence of Coating Thickness and Polymer Concentration. <i>IEEE Sensors Journal</i> , 2019 , 19, 3335-3342	4	16
42	Polymer-coated FBG humidity sensors for monitoring cultural heritage stone artworks. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018 , 125, 325-329	4.6	12
41	Fiber Bragg Grating Probe for Relative Humidity and Respiratory Frequency Estimation: Assessment During Mechanical Ventilation. <i>IEEE Sensors Journal</i> , 2018 , 18, 2125-2130	4	21
40	Polymer-coated fiber optic probe for the monitoring of breathing pattern and respiratory rate. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 1616-1619	0.9	7
39	Nanomaterials for Conservation of Artistic Stones: Performance and Removal Tests by Laser Cleaning. <i>Journal of Nano Research</i> , 2017 , 46, 225-233	1	3
38	Fiber Bragg Grating Measuring System for Simultaneous Monitoring of Temperature and Humidity in Mechanical Ventilation. <i>Sensors</i> , 2017 , 17,	3.8	36
37	Fabrication and preliminary assessment of a fiber optic-based relative humidity sensor for application in mechanical ventilation 2017 ,		2
36	Does the exposure mode to ENPs influence their toxicity to aquatic species? A case study with TiO ₂ nanoparticles and <i>Daphnia magna</i> . <i>Environmental Science and Pollution Research</i> , 2015 , 22, 5050-8	5.1	7
35	Properties of Nanocrystals-Formulated Aluminosilicate Bricks. <i>Nanomaterials and Nanotechnology</i> , 2015 , 5, 28	2.9	3
34	Composite anodes based on nanotube titanium oxide from electro-oxidation of Ti metal substrate. <i>Journal of Power Sources</i> , 2014 , 247, 883-889	8.9	11
33	Development of nanocomposites for conservation of artistic stones. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2014 , 228, 19-26		3
32	Thermal diffusivity enhancement in nanofluids based on pyrolytic titania nanopowders: importance of aggregate morphology. <i>Journal of Raman Spectroscopy</i> , 2014 , 45, 528-532	2.3	3
31	Heat Transfer in Water-Based SiC and TiO ₂ Nanofluids. <i>Heat Transfer Engineering</i> , 2013 , 34, 1060-1072	1.7	30
30	Synthesis of ceramic nanoparticles by laser pyrolysis: From research to applications. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 104, 461-469	6	49

29	An outlook on the potential of Si nanocrystals as luminescent probes for bioimaging. <i>Journal of Materials Research</i> , 2013 , 28, 193-204	2.5	14
28	Study of defect-related light emission in oxidized silicon nanocrystals. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 831-836	1.3	1
27	On the role of non-bridging oxygen centers in the red luminescence emission from silicon nanocrystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 974-978		5
26	Polyethylenimine/N-doped titanium dioxide nanoparticle based inks for ink-jet printing applications. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 3630-3636	2.9	8
25	Preparation of luminescent Si nanoparticles by tailoring the size, crystallinity and surface composition. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 1845-1858	2.3	8
24	Two-photon excitation of luminescence in pyrolytic silicon nanocrystals. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 951-954	3	5
23	Strong luminescence emission enhancement by wet oxidation of pyrolytic silicon nanopowders. <i>Applied Surface Science</i> , 2007 , 253, 7879-7883	6.7	7
22	Synthesis of conjugated polymeric nanobeads for photonic bandgap materials. <i>Sensors and Actuators B: Chemical</i> , 2007 , 126, 35-40	8.5	32
21	Growth control and long-range self-assembly of poly(methyl methacrylate) nanospheres. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 4493-4499	2.9	32
20	Size and Surface Control of Optical Properties in Silicon Nanoparticles. <i>Advances in Science and Technology</i> , 2006 , 45, 2620-2626	0.1	4
19	Surface control of optical properties in silicon nanocrystals produced by laser pyrolysis. <i>Applied Surface Science</i> , 2006 , 252, 4467-4471	6.7	8
18	Probing delocalisation across highly ethynylated mono and dinuclear Pt(II) tethers containing nitrogroups and organic models as redox active probes: X-ray crystal structure of trans-[Pt(CCC ₁₆ H ₄ NO ₂) ₂ (PPh ₃) ₂]. <i>Journal of Organometallic Chemistry</i> , 2005 , 690, 2376-2380	2.3	16
17	Acetylenic polymers as new immobilization matrices for lipolytic enzymes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005 , 32, 67-76		32
16	Copolymers of phenylacetylene and para-nitrophenylacetylene with nonlinear optical properties: Further insight on the conformational structure. <i>Journal of Polymer Science Part A</i> , 2004 , 42, 2365-2376	2.5	24
15	Structure of a monolayer of Pd-diethynylbiphenyl deposited on chromium studied by total reflection EXAFS. <i>Sensors and Actuators B: Chemical</i> , 2004 , 100, 131-134	8.5	8
14	Organometallic Platinum(II) and Palladium(II) Polymers Containing 2,6-Diethynyl-4-nitroaniline Bridging Spacer and Related Dinuclear Model Complexes. <i>Organometallics</i> , 2004 , 23, 2860-2869	3.8	24
13	Chemical synthesis of polyphenylacetylene nanospheres with controlled dimensions for photonic crystals. <i>Materials Science and Engineering C</i> , 2003 , 23, 861-865	8.3	25
12	Dynamic light scattering and optical absorption study of poly(monosubstituted)acetylene polymers and copolymers. <i>Chemical Physics Letters</i> , 2003 , 370, 602-608	2.5	3

11	Diethynyl-Zn-porphyrin-based assemblies: optical and morphological studies of nanostructured thin films. <i>Materials Science and Engineering C</i> , 2003 , 23, 867-871	8.3	10
10	Energy Dispersive X-ray Diffraction (Edxd) Investigation Of Amorphous Poly(phenylacetylene) (Ppa). <i>Journal of Macromolecular Science - Physics</i> , 2003 , 42, 1061-1083	1.4	3
9	Synthesis, characterisation and optical properties of symmetrical and unsymmetrical Pt(II) and Pd(II) bis-acetylides. Crystal structure of trans-[Pt(PPh ₃) ₂ (C≡C ₁₆ H ₅)(C≡C ₁₆ H ₄ NO ₂)]. <i>Journal of Organometallic Chemistry</i> , 2001 , 627, 13-22	2.3	65
8	Z-scan measurements of third-order optical non-linearities in poly(phenylacetylenes). <i>Synthetic Metals</i> , 2001 , 124, 217-219	3.6	39
7	Second-harmonic generation and absorption spectra of platinum organometallic complexes incorporated in PMMA films. <i>Chemical Physics Letters</i> , 2000 , 319, 107-112	2.5	34
6	Static and dynamic light scattering measurements of polyphenylacetylene (PPA) in different organic solvents (tetrahydrofuran, toluene and chloroform). <i>Synthetic Metals</i> , 2000 , 114, 173-179	3.6	23
5	Reactivity of the nitro-group of a π -conjugated polymer upon the interface formation with chromium: a photoelectron spectroscopy investigation. <i>Applied Surface Science</i> , 1999 , 153, 10-18	6.7	12
4	Second-harmonic generation in PMMA films doped with organometallic complexes. <i>Radiation Effects and Defects in Solids</i> , 1999 , 150, 237-242	0.9	
3	Synthesis and properties of p-nitrophenylacetylene π -phenylacetylene copolymers. <i>Journal of Polymer Science Part A</i> , 1998 , 36, 93-102	2.5	18
2	Synthesis and characterisation of bis(ferrocenylethynyl) complexes of platinum (II) A re-investigation of their electrochemical behaviour. <i>Inorganic Chemistry Communication</i> , 1998 , 1, 239-243 ^{3.1}	3.1	53
1	Pressure-Induced Cis to Trans Isomerization of Poly((p-nitrophenyl)acetylene) Prepared Using Rh Complex Catalysts. Extension of π -Conjugation Length. <i>Macromolecules</i> , 1998 , 31, 8660-8665	5.5	68