Rosaria D'Amato

List of Publications by Year
in descending order

53	1,017	361296	434063
papers	citations	20 h-index	31 g-index

53	53	53	1116
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pressure-Induced Cis to Trans Isomerization of Poly((p-nitrophenyl)acetylene) Prepared Using Rh Complex Catalysts. Extension ofÏ€Conjugation Length. Macromolecules, 1998, 31, 8660-8665.	2.2	73
2	Synthesis, characterisation and optical properties of symmetrical and unsymmetrical Pt(II) and Pd(II) bis-acetylides. Crystal structure of trans-[Pt(PPh3)2(Cï¯†Câ€“C6H5)(Cï¯†Câ€“C6H4NO2)]. Journal of Organometallic Chemistry, 2001, 627, 13-22.	0.8	73
3	Synthesis of ceramic nanoparticles by laser pyrolysis: From research to applications. Journal of Analytical and Applied Pyrolysis, 2013, 104, 461-469.	2.6	72
4	Synthesis and characterisation of bis(ferrocenylethynyl) complexes of platinum (II) A re-investigation of their electrochemical behaviour. Inorganic Chemistry Communication, 1998, 1, 239-245.	1.8	56
5	Fiber Bragg Grating Measuring System for Simultaneous Monitoring of Temperature and Humidity in Mechanical Ventilation. Sensors, 2017, 17, 749.	2.1	54
6	Z-scan measurements of third-order optical non-linearities in poly(phenylacetylenes). Synthetic Metals, 2001, 124, 217-219.	2.1	49
7	Second-harmonic generation and absorption spectra of platinum organometallic complexes incorporated in PMMA films. Chemical Physics Letters, 2000, 319, 107-112.	1.2	38
8	Acetylenic polymers as new immobilization matrices for lipolytic enzymes. Journal of Molecular Catalysis B: Enzymatic, 2005, 32, 67-76.	1.8	36
9	Growth control and long-range self-assembly of poly(methyl methacrylate) nanospheres. Journal of Applied Polymer Science, 2006, 102, 4493-4499.	1.3	36
10	Synthesis of conjugated polymeric nanobeads for photonic bandgap materials. Sensors and Actuators B: Chemical, 2007, 126, 35-40.	4.0	35
11	Heat Transfer in Water-Based SiC and TiO₂Nanofluids. Heat Transfer Engineering, 2013, 34, 1060-1072.	1.2	33
12	Fiber Bragg Grating Probe for Relative Humidity and Respiratory Frequency Estimation: Assessment During Mechanical Ventilation. IEEE Sensors Journal, 2018, 18, 2125-2130.	2.4	33
13	Organometallic Platinum(II) and Palladium(II) Polymers Containing 2,6-Diethynyl-4-nitroaniline Bridging Spacer and Related Dinuclear Model Complexes. Organometallics, 2004, 23, 2860-2869.	1.1	30
14	A Magnetic Resonance-Compatible Wearable Device Based on Functionalized Fiber Optic Sensor for Respiratory Monitoring. IEEE Sensors Journal, 2021, 21, 14418-14425.	2.4	30
15	Agar-Coated Fiber Bragg Grating Sensor for Relative Humidity Measurements: Influence of Coating Thickness and Polymer Concentration. IEEE Sensors Journal, 2019, 19, 3335-3342.	2.4	29
16	Copolymers of phenylacetylene andpara-nitrophenylacetylene with nonlinear optical properties: Further insight on the conformational structure. Journal of Polymer Science Part A, 2004, 42, 2365-2376.	2.5	27
17	Chemical synthesis of polyphenylacetylene nanospheres with controlled dimensions for photonic crystals. Materials Science and Engineering C, 2003, 23, 861-865.	3.8	26
18	Static and dynamic light scattering measurements of polyphenylacetylene (PPA) in different organic solvents (tetrahydrofuran, toluene and chloroform). Synthetic Metals, 2000, 114, 173-179.	2.1	25

#	Article	IF	Citations
19	Plant Wearable Sensors Based on FBG Technology for Growth and Microclimate Monitoring. Sensors, 2021, 21, 6327.	2.1	23
20	Synthesis and properties ofp-nitrophenylacetylene-phenylacetylene copolymers. Journal of Polymer Science Part A, 1998, 36, 93-102.	2.5	21
21	Polymer-coated FBG humidity sensors for monitoring cultural heritage stone artworks. Measurement: Journal of the International Measurement Confederation, 2018, 125, 325-329.	2.5	19
22	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(CCâ€“C6H4NO2)2(PPh3)2]. Journal of Organometallic Chemistry, 2005, 690, 2376-2380.	0.8	17
23	An outlook on the potential of Si nanocrystals as luminescent probes for bioimaging. Journal of Materials Research, 2013, 28, 193-204.	1.2	16
24	Humidity Sensing by Chitosan-Coated Fibre Bragg Gratings (FBG). Sensors, 2021, 21, 3348.	2.1	16
25	Reactivity of the nitro-group of a Ï€-conjugated polymer upon the interface formation with chromium: a photoelectron spectroscopy investigation. Applied Surface Science, 1999, 153, 10-18.	3.1	14
26	Composite anodes based on nanotube titanium oxide from electro-oxidation of Ti metal substrate. Journal of Power Sources, 2014, 247, 883-889.	4.0	12
27	Preparation of luminescent Si nanoparticles by tailoring the size, crystallinity and surface composition. Journal of Nanoparticle Research, 2010, 12, 1845-1858.	0.8	11
28	Diethynyl-Zn-porphyrin-based assemblies: optical and morphological studies of nanostructured thin films. Materials Science and Engineering C, 2003, 23, 867-871.	3.8	10
29	Polyethylenimine/Nâ€doped titanium dioxide nanoparticle based inks for inkâ€jet printing applications. Journal of Applied Polymer Science, 2011, 122, 3630-3636.	1.3	9
30	Polymer-coated fiber optic probe for the monitoring of breathing pattern and respiratory rate. , 2018, 2018, 1616-1619.		9
31	Structure of a monolayer of Pd-diethynylbiphenyl deposited on chromium studied by total reflection EXAFS. Sensors and Actuators B: Chemical, 2004, 100, 131-134.	4.0	8
32	Surface control of optical properties in silicon nanocrystals produced by laser pyrolysis. Applied Surface Science, 2006, 252, 4467-4471.	3.1	8
33	Does the exposure mode to ENPs influence their toxicity to aquatic species? A case study with TiO2 nanoparticles and Daphnia magna. Environmental Science and Pollution Research, 2015, 22, 5050-5058.	2.7	8
34	Strong luminescence emission enhancement by wet oxidation of pyrolytic silicon nanopowders. Applied Surface Science, 2007, 253, 7879-7883.	3.1	7
35	Two-photon excitation of luminescence in pyrolytic silicon nanocrystals. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 951-954.	1.3	6
36	On the role of non-bridging oxygen centers in the red luminescence emission from silicon nanocrystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 974-978.	0.8	6

#	Article	IF	Citations
37	Thermal diffusivity enhancement in nanofluids based on pyrolytic titania nanopowders: importance of aggregate morphology. Journal of Raman Spectroscopy, 2014, 45, 528-532.	1.2	6
38	Development of nanocomposites for conservation of artistic stones. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2014, 228, 19-26.	0.1	6
39	Size and Surface Control of Optical Properties in Silicon Nanoparticles. Advances in Science and Technology, 2006, 45, 2620-2626.	0.2	5
40	Performance of nanocomposites for preservation of artistic stones. AIP Conference Proceedings, 2014, , .	0.3	4
41	Properties of Nanocrystals-Formulated Aluminosilicate Bricks. Nanomaterials and Nanotechnology, 2015, 5, 28.	1.2	4
42	Dynamic light scattering and optical absorption study of poly(monosubstituted)acetylene polymers and copolymers. Chemical Physics Letters, 2003, 370, 602-608.	1.2	3
43	Energy Dispersive X-ray Diffraction (Edxd) Investigation Of Amorphous Poly(phenylacetylene) (Ppa). Journal of Macromolecular Science - Physics, 2003, 42, 1061-1083.	0.4	3
44	Nanomaterials for Conservation of Artistic Stones: Performance and Removal Tests by Laser Cleaning. Journal of Nano Research, 2017, 46, 225-233.	0.8	3
45	Feasibility assessment of an FBG-based soft sensor embedded into a single-use surgical mask for respiratory monitoring. , 2021, , .		3
46	Study of defectâ€related light emission in oxidized silicon nanocrystals. Physica Status Solidi (B): Basic Research, 2013, 250, 831-836.	0.7	2
47	Fabrication and preliminary assessment of a fiber optic-based relative humidity sensor for application in mechanical ventilation. , 2017, , .		2
48	On the Red Photoluminescence Emission from Surface-Oxidised Silicon Nanocrystals. , 2010, , .		1
49	Second-harmonic generation in PMMA films doped with organometallic complexes. Radiation Effects and Defects in Solids, 1999, 150, 237-242.	0.4	0
50	Synthesis and Photoluminescence of Ytterbium-doped Silicon Nanocrystals. , 2010, , .		0
51	Si-based Nanoparticles: a biocompatibility study. , 2010, , .		0
52	TiO[sub 2]âˆ•polymer nanocomposite based inks. , 2010, , .		0
53	SENSING MEMBRANES BASED ON POLY(MONOSUBSITUTED ACETYLENES) FOR DETECTION OF ALCOHOLS. , 2002, , .		0