Delia Chillura Martino

List of Publications by Year
in descending order

94 papers	2,203 citations	186209 28 h-index	265120 42 g-index
98 all docs	98 docs citations	98 times ranked	2513 citing authors

#	Article	IF	Citations
1	Design of Nonionic Surfactants for Supercritical Carbon Dioxide. Science, 1996, 274, 2049-2052.	6.0	268
2	Localization ofn-Alcohols and Structural Effects in Aqueous Solutions of Sodium Dodecyl Sulfate. Langmuir, 1997, 13, 3277-3283.	1.6	87
3	Neutron scattering characterization of homopolymers and graft-copolymer micelles in supercritical carbon dioxide. Journal of Molecular Structure, 1996, 383, 3-10.	1.8	61
4	Ce:YAG Nanoparticles Embedded in a PMMA Matrix: Preparation and Characterization. Langmuir, 2010, 26, 13442-13449.	1.6	60
5	Synthesis, size control, and passivation of CdS nanoparticles in water/AOT/n-heptane microemulsions. Materials Science and Engineering C, 2003, 23, 531-539.	3.8	54
6	1H and19F NMR Investigation on Mixed Hydrocarbonâ^'Fluorocarbon Micelles. Journal of Physical Chemistry B, 2003, 107, 10048-10056.	1.2	53
7	Morphology, mechanical properties and thermal degradation kinetics of PMMA-zirconia nanocomposites prepared by melt compounding. EXPRESS Polymer Letters, 2012, 6, 871-881.	1.1	47
8	Consolidation and protection by nanolime: Recent advances for the conservation of the graffiti, Carceri dello Steri Palermo and of the 18th century lunettes, SS. Giuda e Simone Cloister, Corniola (Empoli). Journal of Cultural Heritage, 2014, 15, 151-158.	1.5	47
9	Effect of the dopant selection (Er, Eu, Nd or Ce) and its quantity on the formation of yttrium aluminum garnet nanopowders. Optical Materials, 2008, 31, 261-267.	1.7	46
10	Synthesis of Nd:YAG nanopowder using the citrate method with microwave irradiation. Journal of Alloys and Compounds, 2010, 491, 737-741.	2.8	45
11	The effect of silica nanoparticles on the morphology, mechanical properties and thermal degradation kinetics of polycarbonate. Composites Science and Technology, 2012, 73, 34-39.	3.8	44
12	Determination of selected polyaromatic hydrocarbons by gas chromatographyâ€“mass spectrometry for the analysis of wood to establish the cause of sinking of an old vessel (Scauri wreck) by fire. Microchemical Journal, 2014, 117, 116-121.	2.3	44
13	Fluorinated, protonated, and mixed surfactant solutions: a small-angle neutron scattering study. Langmuir, 1993, 9, 1193-1200.	1.6	41
14	Nonprecious Copperâ€Based Transparent Top Electrode via Seed Layerâ€“Assisted Thermal Evaporation for Highâ€Performance Semitransparent nâ€iâ€p Perovskite Solar Cells. Advanced Materials Technologies, 2019, 4, 1800688.	3.0	41
15	A New Water-Soluble Bactericidal Agent for the Treatment of Infections Caused by Gram-Positive and Gram-Negative Bacterial Strains. Antibiotics, 2020, 9, 586.	1.5	41
16	Polyaminocyclodextrin nanosponges: synthesis, characterization and pH-responsive sequestration abilities. RSC Advances, 2016, 6, 49941-49953.	1.7	38
17	The Morphology of Block Copolymer Micelles in Supercritical Carbon Dioxide by Small-Angle Neutron and X-ray Scattering. Journal of Applied Crystallography, 1997, 30, 690-695.	1.9	37
18	Recent Developments in Understanding Biocharâ€™s Physicalâ€“Chemistry. Agronomy, 2021, 11, 615.	1.3	37

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19	Graphene and ionic liquids new gel paste electrodes for caffeic acid quantification. Sensors and Actuators B: Chemical, 2015, 212, 248-255.	4.0	36
20	Pre- and post-modification of mixed cyclodextrin-calixarene co-polymers: A route towards tunability. Carbohydrate Polymers, 2017, 157, 1393-1403.	5.1	36
21	Preparation of Nd:YAG Nanopowder in a Confined Environment. Langmuir, 2007, 23, 3947-3952.	1.6	35
22	Development of controlled release systems of biocides for the conservation of cultural heritage. International Biodeterioration and Biodegradation, 2017, 125, 150-156.	1.9	34
23	Microwave-assisted synthesis of anhydrous CdS nanoparticles in a waterâ€“oil microemulsion. Journal of Colloid and Interface Science, 2006, 304, 413-418.	5.0	32
24	Experimental investigation and modeling of diffusion dialysis for HCl recovery from waste pickling solution. Journal of Environmental Management, 2019, 235, 202-212.	3.8	30
25	Influence of Temperature on Calcium Hydroxyapatite Nanopowders. Advances in Nanoparticles, 2012, 01, 21-28.	0.3	30
26	Effect of Crown Ether 1,4,7,10,13,16-Hexaoxacyclooctadecane on the Structure of Sodium Dodecyl Sulfate and Dodecyltrimethylammonium Bromide Aqueous Micellar Solutions. Langmuir, 1995, 11, 2464-2470.	1.6	29
27	FT-IR and dielectric study of water/AOT liquid crystals. Journal of Molecular Structure, 2000, 522, 165-178.	1.8	29
28	Low-Q peak in X-ray patterns of choline-phenylalanine and -homophenylalanine: A combined effect of chain and stacking. Chemical Physics Letters, 2016, 660, 99-101.	1.2	29
29	Influence of the modification, induced by zirconia nanoparticles, on the structure and properties of polycarbonate. European Polymer Journal, 2013, 49, 2022-2030.	2.6	27
30	Alcoholic nanolime dispersion obtained by the insolubilisation-precipitation method and its application for the deacidification of ancient paper. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 513, 241-249.	2.3	27
31	Structure of Urea Clusters Confined in AOT Reversed Micelles. Langmuir, 2003, 19, 4913-4922.	1.6	26
32	Determination of the Composition of Mixed Hydrogenated and Fluorinated Micelles by Small Angle Neutron Scattering. Journal of Physical Chemistry B, 1997, 101, 9525-9531.	1.2	25
33	Ce:Y₃Al₅O₁₂â€“Poly(methyl methacrylate) Composite for White-Light-Emitting Diodes. Journal of Physical Chemistry C, 2014, 118, 9107-9113.	1.5	25
34	Volatile Compounds of Lemon and Grapefruit IntegroPectin. Molecules, 2021, 26, 51.	1.7	25
35	MCM-41-CdS nanoparticle composite material: Preparation and characterization. Microporous and Mesoporous Materials, 2010, 128, 101-107.	2.2	23
36	Silver nanoparticles stabilized by a polyaminocyclodextrin as catalysts for the reduction of nitroaromatic compounds. Journal of Molecular Catalysis A, 2015, 408, 250-261.	4.8	23

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37	Sensor Properties of Pristine and Functionalized Carbon Nanohorns. Electroanalysis, 2016, 28, 2489-2499.	1.5	23
38	Effect of halloysite nanotubes filler on polydopamine properties. Journal of Colloid and Interface Science, 2019, 555, 394-402.	5.0	22
39	Boosting the Performance of One-Step Solution-Processed Perovskite Solar Cells Using a Natural Monoterpene Alcohol as a Green Solvent Additive. ACS Applied Electronic Materials, 2021, 3, 1813-1825.	2.0	22
40	Formulation of Mesoporous Silica Nanoparticles for Controlled Release of Antimicrobials for Stone Preventive Conservation. Frontiers in Chemistry, 2020, 8, 699.	1.8	21
41	A multivariate approach to the study of orichalcum ingots from the underwater Gela's archaeological site. Microchemical Journal, 2017, 135, 163-170.	2.3	20
42	Micro-analytical identification of the components of varnishes from South Italian historical musical instruments by PLM, ESEMâ€“EDX, microFTIR, GCâ€“MS, and Pyâ€“GCâ€“MS. Microchemical Journal, 2014, 116, 31-40.	2.3	19
43	Chromium liquid waste inertization in an inorganic alkali activated matrix: Leaching and NMR multinuclear approach. Journal of Hazardous Materials, 2015, 286, 474-483.	6.5	19
44	Photosynthesized silverâ€“polyaminocyclodextrin nanocomposites as promising antibacterial agents with improved activity. RSC Advances, 2016, 6, 40090-40099.	1.7	19
45	A multi-analytical non-invasive and micro-invasive approach to canvas oil paintings. General considerations from a specific case. Microchemical Journal, 2017, 133, 607-613.	2.3	19
46	Micelles in Mixtures of Sodium Dodecyl Sulfate and a Bolaform Surfactant. Langmuir, 2006, 22, 6001-6009.	1.6	18
47	Biogenic Selenium Nanoparticles: A Fine Characterization to Unveil Their Thermodynamic Stability. Nanomaterials, 2021, 11, 1195.	1.9	18
48	Luminescence Properties of Neodymium-Doped Yttrium Aluminium Garnet Obtained by the Co-Precipitation Method Combined with the Mechanical Process. Solid State Phenomena, 2005, 106, 7-16.	0.3	17
49	An insight into the interaction between functionalized thermoplastic elastomer and layered double hydroxides through rheological investigations. Composites Part B: Engineering, 2018, 139, 47-54.	5.9	17
50	Water Dynamics at the Solidâ€“Liquid Interface to Unveil the Textural Features of Synthetic Nanosponges. Journal of Physical Chemistry B, 2020, 124, 1847-1857.	1.2	17
51	Preparation and characterisation of Ce:YAG -polycarbonate composites for white LED. Journal of Alloys and Compounds, 2016, 664, 726-731.	2.8	15
52	Biogenic iron-silver nanoparticles inhibit bacterial biofilm formation due to Ag+ release as determined by a novel phycoerythrin-based assay. Applied Microbiology and Biotechnology, 2020, 104, 6325-6336.	1.7	15
53	Small angle scattering study of the structure of isotactic polypropylene-hydrogenated oligo(cyclopentadiene) blends. Journal of Molecular Structure, 1996, 383, 75-79.	1.8	14
54	Green Synthesis, Molecular Characterization and Associative Behavior of Some Gemini Surfactants without a Spacer Group. Materials, 2013, 6, 1506-1519.	1.3	13

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55	Hyper-reticulated calixarene polymers: a new example of entirely synthetic nanosponge materials. Beilstein Journal of Organic Chemistry, 2018, 14, 1498-1507.	1.3	13
56	Identification of microplastics using 4â€dimethylaminoâ€4â€²â€nitrostilbene solvatochromic fluorescence. Microscopy Research and Technique, 2021, 84, 2820-2831.	1.2	13
57	Alcohol Partition in a Water-in-Oil Microemulsion:Â Small-Angle Neutron-Scattering Contrast Measurements. Journal of Physical Chemistry B, 1997, 101, 7139-7146.	1.2	12
58	Structural and Transport Properties of Bola C-16 Micelles in Water and in Aqueous Electrolyte Solutions. Journal of Physical Chemistry B, 2004, 108, 1214-1223.	1.2	12
59	Superhydrophobic TiO2/fluorinated polysiloxane hybrid coatings with controlled morphology for solar photocatalysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 631, 127633.	2.3	12
60	Application of the small-angle neutron scattering technique to the study of solubilization mechanisms of organic molecules by micellar systems. Journal of Molecular Structure, 1996, 383, 133-143.	1.8	11
61	Micro-X-Ray Fluorescence and the Old Masters. Applied Physics A: Materials Science and Processing, 2012, 107, 197-202.	1.1	11
62	Influence of the Ce:YAG Amount on Structure and Optical Properties of Ce:YAG-PMMA Composites for White LED. Zeitschrift Fur Physikalische Chemie, 2016, 230, 1219-1231.	1.4	11
63	Synthesis of yttrium aluminum garnet nanoparticles in confined environment II: Role of the thermal treatment on the composition and microstructural evolution. Journal of Alloys and Compounds, 2017, 719, 264-270.	2.8	11
64	A combined physicalâ€“chemical and microbiological approach to unveil the fabrication, provenance, and state of conservation of the Kinkarakawa-gami art. Scientific Reports, 2020, 10, 16072.	1.6	11
65	Cross-linked natural IntegroPectin films from citrus biowaste with intrinsic antimicrobial activity. Cellulose, 2022, 29, 5779-5802.	2.4	11
66	Structural Characterization of Zirconia Nanoparticles Prepared by Microwave-Hydrothermal Synthesis. Journal of Dispersion Science and Technology, 2009, 30, 1511-1516.	1.3	10
67	Polyaminoazide mixtures for the synthesis of pH-responsive calixarene nanosponges. Beilstein Journal of Organic Chemistry, 2019, 15, 633-641.	1.3	9
68	Partitioning of Macrocyclic Compounds in a Cationic and an Anionic Micellar Solution:Â A Small-Angle Neutron Scattering Study. Langmuir, 2004, 20, 3854-3862.	1.6	8
69	Electrochemistry of TiO2â€“iron hexacyanocobaltate composite electrodes. Solid State Ionics, 2014, 259, 53-58.	1.3	8
70	Investigation on four centuripe vases (late 3rd-2nd cent. B.C.) by portable X-ray fluorescence and total reflectance-FTIR. Journal of Cultural Heritage, 2021, 48, 326-335.	1.5	8
71	Changes in Physicochemical Properties of Biochar after Addition to Soil. Agriculture (Switzerland), 2022, 12, 320.	1.4	8
72	Effect of the cerium loading on the HMS structure. Preparation, characterization and catalytic properties. Catalysis Communications, 2013, 36, 10-15.	1.6	7

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73	More insight into characterization of the waterlogged wooden part of Acqualadroni Roman Rostrum by solid-state NMR. Microchemical Journal, 2016, 124, 831-836.	2.3	7
74	Loading and release of the complex [Pt(DTBTA)(DMSO)Cl]ClÂ·CHCl3 with the 2,2â€²-dithiobis(benzothiazole) ligand into mesoporous silica and studies of antiproliferative activity on MCF-7 cells. Polyhedron, 2018, 153, 234-239.	1.0	7
75	Multi-scale structural analysis of xyloglucan colloidal dispersions and hydro-alcoholic gels. Cellulose, 2020, 27, 3025-3035.	2.4	7
76	Solid state NMR investigation of the roman Acqualadroni rostrum: tenth year assessment of the consolidation treatment of the wooden part. Cellulose, 2021, 28, 1025-1038.	2.4	6
77	Heuristic Algorithm for the Analysis of Fast Field Cycling (FFC) NMR Dispersion Curves. Analytical Chemistry, 2021, 93, 8553-8558.	3.2	6
78	Differentiation among dairy products by combination of fast field cycling NMR relaxometry data and chemometrics. Magnetic Resonance in Chemistry, 2022, 60, 369-385.	1.1	6
79	Structural effects of macrocyclic compounds and their partition in sodium dodecylsulphate aqueous solutions. Journal of Applied Crystallography, 2003, 36, 562-567.	1.9	5
80	Improved Photocatalytic Activity of Polysiloxane TiO₂ Composites by Thermally Induced Nanoparticle Bulk Clustering and Dye Adsorption. Langmuir, 2021, 37, 10354-10365.	1.6	5
81	Formation of Î±-Ï‰(4,7,10,13-pentaoxa-16-azacyclooctadecane) hexadecane micelles in aqueous solution â€“ effect of HCl addition. Journal of Applied Crystallography, 2003, 36, 753-757.	1.9	4
82	Synthesis of yttrium aluminum garnet nanoparticles in confined environment, and their characterization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 511, 82-90.	2.3	3
83	Molecular Association of a Nonionic and an Ionic-Induced Surfactant:Â Cryptand (221D) NaCl in Water. Langmuir, 2003, 19, 554-558.	1.6	2
84	Photochemical synthesis of pyrene perfluoroalkyl derivatives and their embedding in a polymethylmethacrylate matrix: a spectroscopic and structural study. Journal of Materials Chemistry C, 2014, 2, 7722-7730.	2.7	2
85	Convenient Photochemical Synthesis of Silverâ€Polyaminocyclodextrin Nanocomposites: The Role of the Light Source from a Mechanistic Viewpoint. ChemistrySelect, 2018, 3, 3048-3055.	0.7	2
86	Small angle neutron scattering studies of critical phenomena in a three-component microemulsion. Progress in Colloid and Polymer Science, 1997, 106, 104-107.	0.5	2
87	Processing of XRF elementary data from the painted ceramic surface with innovative tools.. Journal of Physics: Conference Series, 2022, 2204, 012083.	0.3	2
88	Micelles formed from photochemically active amphiphiles: structural characterization by small-angle neutron scattering. Journal of Molecular Structure, 1996, 383, 191-196.	1.8	1
89	Energy Dispersive X-Ray Diffraction Potentiality in the Field of Cultural Heritage: Simultaneous Structural and Elemental Analysis of Various Artefacts. Annali Di Chimica, 2007, 97, 473-490.	0.6	1
90	Polyamideâ€Based Fibers Containing Microwaveâ€Exfoliated Graphite Nanoplatelets. Advances in Polymer Technology, 2018, 37, 786-797.	0.8	1

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91	Newly discovered orichalcum ingots from Mediterranean sea: Further investigation. Journal of Archaeological Science: Reports, 2021, 37, 102901.	0.2	1
92	Molecular association of cryptand 221D in NaCl-water solutions. A small-angle neutron scattering study. European Physical Journal Special Topics, 1993, 03, C8-173-C8-176.	0.2	1
93	Identification Techniques II. Lecture Notes in Quantum Chemistry II, 2012, , 91-161.	0.3	0
94	Archaeometric study of execution techniques of white Attic vases: the case of the Perseus crater in Agrigento. RSC Advances, 2022, 12, 4526-4535.	1.7	0