

Silvia Giordani

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.

126
papers

7,076
citations

44
h-index

82
g-index

134
ext. papers

7,745
ext. citations

7.8
avg, IF

6.19
L-index

#	Paper	IF	Citations
126	Carbon Nanomaterials (CNMs) and Enzymes: From Nanozymes to CNM-Enzyme Conjugates and Biodegradation.. <i>Materials</i> , 2022 , 15,	3.5	3
125	Molecular Switches-Tools for Imparting Control in Drug Delivery Systems.. <i>Frontiers in Chemistry</i> , 2022 , 10, 859450	5	2
124	Efficient and reversible CO2 capture in bio-based ionic liquids solutions. <i>Journal of CO2 Utilization</i> , 2021 , 55, 101815	7.6	2
123	Biocompatible Dispersants for Carbon Nanomaterials. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10565	2.6	0
122	Human Dental Pulp Stem Cell Osteogenic Differentiation Seeded on Equine Bone Block with Graphene and Melatonin. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3218	2.6	2
121	Carbon nano-onions as potential nanocarriers for drug delivery. <i>Dalton Transactions</i> , 2021 , 50, 2300-2309.	4.3	6
120	Spiropyran-Based Drug Delivery Systems. <i>Frontiers in Chemistry</i> , 2021 , 9, 720087	5	8
119	Hyaluronic Acid-Conjugated Carbon Nanomaterials for Enhanced Tumour Targeting Ability.. <i>Molecules</i> , 2021 , 27,	4.8	4
118	Effects of the Molecular Weight of Hyaluronic Acid in a Carbon Nanotube Drug Delivery Conjugate. <i>Frontiers in Chemistry</i> , 2020 , 8, 578008	5	4
117	Modulation of Efficient Diiodo-BODIPY Phototoxicity to Cancer Cells by Carbon Nano-Onions. <i>Frontiers in Chemistry</i> , 2020 , 8, 573211	5	2
116	Surfactant-mediated dispersions of carbon nano-onions in aqueous solution. <i>Nano Express</i> , 2020 , 1, 010018	1.8	4
115	Toxicity assessment of laser-induced graphene by zebrafish during development. <i>JPhys Materials</i> , 2020 , 3, 034008	4.2	20
114	Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. <i>Nature Nanotechnology</i> , 2020 , 15, 164-166	28.7	40
113	Toxicological profile of calcium carbonate nanoparticles for industrial applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 190, 110947	6	8
112	Osteoblastic Differentiation on Graphene Oxide-Functionalized Titanium Surfaces: An In Vitro Study. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
111	Synchrotron soft X-ray microscopy and XRF to image Single-walled carbon nanotubes in epithelial cells. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 465, 79-84	1.2	2
110	Supramolecular functionalization of carbon nano-onions with hyaluronic acid-phospholipid conjugates for selective targeting of cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 188, 110779	6	23

109	Synthesis of green fluorescent carbon dots from carbon nano-onions and graphene oxide.. <i>RSC Advances</i> , 2020 , 10, 36404-36412	3.7	3
108	Graphene-Like Layers from Carbon Black: In Vivo Toxicity Assessment. <i>Nanomaterials</i> , 2020 , 10,	5.4	1
107	Electrochemical Properties of Screen-Printed Carbon Nano-Onion Electrodes. <i>Molecules</i> , 2020 , 25,	4.8	6
106	Diversity-oriented synthesis of blue emissive nitrogen heterocycles and their conjugation with carbon nano-onions. <i>Frontiers of Chemical Science and Engineering</i> , 2020 , 14, 76-89	4.5	3
105	Supramolecular chemistry of carbon nano-onions. <i>Nanoscale</i> , 2020 , 12, 9352-9358	7.7	13
104	Ratiometric temperature sensing with fluorescent thermochromic switches. <i>Chemical Communications</i> , 2019 , 55, 1112-1115	5.8	23
103	Spiropyrans for light-controlled drug delivery. <i>Dalton Transactions</i> , 2019 , 48, 15537-15544	4.3	21
102	Carbon Nano-Onions as Non-Cytotoxic Carriers for Cellular Uptake of Glycopeptides and Proteins. <i>Nanomaterials</i> , 2019 , 9,	5.4	8
101	Carbon Nano-onions: A Valuable Class of Carbon Nanomaterials in Biomedicine. <i>Current Medicinal Chemistry</i> , 2019 , 26, 6915-6929	4.3	11
100	Zebrafish structural development in Mueller-matrix scanning microscopy. <i>Scientific Reports</i> , 2019 , 9, 19974	4.4	17
99	Iron-related toxicity effects of single-walled carbon nanotubes in human placental cells (BeWo) investigated by X-ray fluorescence microscopy. <i>X-Ray Spectrometry</i> , 2019 , 48, 413-421	0.9	3
98	Internalization of Carbon Nano-onions by Hippocampal Cells Preserves Neuronal Circuit Function and Recognition Memory. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16952-16963	9.5	9
97	Iron-related toxicity of single-walled carbon nanotubes and crocidolite fibres in human mesothelial cells investigated by Synchrotron XRF microscopy. <i>Scientific Reports</i> , 2018 , 8, 706	4.9	18
96	Photocatalytic Initiation of Radical Thiolene Reactions Using Carbon-Bi2O3 Nanocomposites. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4120-4126	5.6	15
95	Photo-Responsive Graphene and Carbon Nanotubes to Control and Tackle Biological Systems. <i>Frontiers in Chemistry</i> , 2018 , 6, 102	5	23
94	Fluorescent single-digit detonation nanodiamond for biomedical applications. <i>Methods and Applications in Fluorescence</i> , 2018 , 6, 035010	3.1	26
93	Biodistribution and biocompatibility of passion fruit-like nano-architectures in zebrafish. <i>Nanotoxicology</i> , 2018 , 12, 914-922	5.3	30
92	Carbon Nano-onions for Bioimaging and Cancer Therapy Applications. <i>Nanomedicine and Nanotoxicology</i> , 2018 , 417-455	0.3	5

91	Carbon Nanomaterials for Deep-Tissue Imaging in the NIR Spectral Window 2018 , 87-114		
90	The Utility of Zebrafish as a Model for Screening Developmental Neurotoxicity. <i>Frontiers in Neuroscience</i> , 2018 , 12, 976	5.1	63
89	Boron/Nitrogen-Codoped Carbon Nano-Onion Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Applied Nano Materials</i> , 2018 , 1, 5763-5773	5.6	33
88	Carbon Nanomaterials for Nanomedicine 2018 , 103-113		8
87	Recent advances in smart biotechnology: Hydrogels and nanocarriers for tailored bioactive molecules depot. <i>Advances in Colloid and Interface Science</i> , 2017 , 249, 163-180	14.3	25
86	Porous graphite oxide pillared with tetrapod-shaped molecules. <i>Carbon</i> , 2017 , 120, 145-156	10.4	22
85	Carbon nano-onions in biomedical applications: Promising theranostic agents. <i>Inorganica Chimica Acta</i> , 2017 , 468, 67-76	2.7	49
84	Far-red fluorescent carbon nano-onions as a biocompatible platform for cellular imaging. <i>RSC Advances</i> , 2017 , 7, 45676-45681	3.7	36
83	Carbon nano-onions as fluorescent on/off modulated nanoprobe for diagnostics. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 1878-1888	3	21
82	Toxicity Assessment of Carbon Nanomaterials in Zebrafish during Development. <i>Nanomaterials</i> , 2017 , 7,	5.4	47
81	Probing Metal Ion Complexation of Ligands with Multiple Metal Binding Sites: The Case of Spiropyran. <i>Chemistry - A European Journal</i> , 2016 , 22, 13976-13984	4.8	28
80	Biocompatibility and biodistribution of functionalized carbon nano-onions (f-CNOs) in a vertebrate model. <i>Scientific Reports</i> , 2016 , 6, 33923	4.9	49
79	Functionalized Carbon Nano-onions as Imaging Probes for Cancer Cells 2016 , 141-142		1
78	Carbon Nanomaterials Interfacing with Neurons: An In vivo Perspective. <i>Frontiers in Neuroscience</i> , 2016 , 10, 250	5.1	64
77	Surface analysis of zinc-porphyrin functionalized carbon nano-onions. <i>Biointerphases</i> , 2015 , 10, 019006	1.8	13
76	Recent developments in carbon nanomaterial sensors. <i>Chemical Society Reviews</i> , 2015 , 44, 4433-53	58.5	350
75	Carbon nanomaterials: multi-functional agents for biomedical fluorescence and Raman imaging. <i>Chemical Society Reviews</i> , 2015 , 44, 4672-98	58.5	202
74	Highly surface functionalized carbon nano-onions for bright light bioimaging. <i>Methods and Applications in Fluorescence</i> , 2015 , 3, 044005	3.1	31

73	Multi-Functionalized Carbon Nano-onions as Imaging Probes for Cancer Cells. <i>Chemistry - A European Journal</i> , 2015 , 21, 19071-80	4.8	55
72	Synthesis and Characterization of Far-Red/NIR-Fluorescent BODIPY Dyes, Solid-State Fluorescence, and Application as Fluorescent Tags Attached to Carbon Nano-onions. <i>Chemistry - A European Journal</i> , 2015 , 21, 9727-32	4.8	42
71	Impact of Carbon Nano-Onions on as a Model Organism for Nanoecotoxicology. <i>Nanomaterials</i> , 2015 , 5, 1331-1350	5.4	44
70	Non-covalent functionalization of carbon nano-onions with pyreneBODIPY dyads for biological imaging. <i>RSC Advances</i> , 2015 , 5, 50253-50258	3.7	41
69	NIR fluorescence labelled carbon nano-onions: synthesis, analysis and cellular imaging. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 7459-7463	7.3	62
68	Boron dipyrromethene (BODIPY) functionalized carbon nano-onions for high resolution cellular imaging. <i>Nanoscale</i> , 2014 , 6, 13761-9	7.7	62
67	Synthesis and photochemical properties of spiropyran graft and star polymers obtained by click chemistry. <i>Polymer Chemistry</i> , 2014 , 5, 6318-6324	4.9	28
66	Carbon nano-onions (multi-layer fullerenes): chemistry and applications. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 1980-98	3	161
65	Native chemical ligation, thiol-ene click: a methodology for the synthesis of functionalized peptides. <i>Journal of Organic Chemistry</i> , 2013 , 78, 4270-7	4.2	32
64	Surface-enhanced Raman scattering spectra of radial breathing and G band modes in functionalised nanotubes. <i>Chemical Physics Letters</i> , 2013 , 568-569, 95-100	2.5	3
63	Personality subtypes in adolescents with anorexia nervosa. <i>Comprehensive Psychiatry</i> , 2013 , 54, 702-12	7.3	33
62	Carbon Nanotubes: Functionalization of Carbon Nanoparticles Modulates Inflammatory Cell Recruitment and NLRP3 Inflammasome Activation (Small 24/2013). <i>Small</i> , 2013 , 9, 4280-4280	11	
61	Functionalization of carbon nanoparticles modulates inflammatory cell recruitment and NLRP3 inflammasome activation. <i>Small</i> , 2013 , 9, 4194-206	11	112
60	Surface-enhanced Raman scattering from small numbers of purified and oxidised single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2012 , 535, 146-151	2.5	28
59	Toxicity of Carbon Nanotubes 2012 , 175		3
58	Interaction studies between photochromic spiropyrans and transition metal cations: the curious case of copper. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 1162-71	3.9	46
57	Photo-controlled release of zinc metal ions by spiropyran receptors anchored to single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 6034-43	3.6	23
56	Molecular switches as photocontrollable "smart" receptors. <i>Chemical Society Reviews</i> , 2012 , 41, 4010-29	58.5	367

55	Lipophilic guanosine derivatives as carbon nanotube dispersing agents. <i>Carbon</i> , 2012 , 50, 4663-4672	10.4	13
54	Excited state on/off switching of a boron azadipyrromethene single-wall carbon nanotube conjugate. <i>Supramolecular Chemistry</i> , 2012 , 24, 23-28	1.8	15
53	Controlled carboxylic acid introduction: a route to highly purified oxidised single-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17881		49
52	Synthesis and characterization of boron azadipyrromethene single-wall carbon nanotube electron donor-acceptor conjugates. <i>ACS Nano</i> , 2011 , 5, 1198-206	16.7	65
51	Photochemically Triggered Alkylthiol Reactions on Highly Ordered Pyrolytic Graphite. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10196-10204	3.8	12
50	Conjugated Quantum Dots Inhibit the Amyloid [1-42] Fibrillation Process. <i>International Journal of Alzheimer's Disease</i> , 2011 , 2011, 502386	3.7	17
49	Screening the cytotoxicity of single-walled carbon nanotubes using novel 3D tissue-mimetic models. <i>ACS Nano</i> , 2011 , 5, 9278-90	16.7	56
48	Effect of Surfactant Structure on Carbon Nanotube Sidewall Adsorption. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 5641-5648	3.2	38
47	Structural modifications of ionic liquid surfactants for improving the water dispersibility of carbon nanotubes: an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 11373-83	3.6	28
46	Critical Investigation of Defect Site Functionalization on Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2011 , 23, 67-74	9.6	54
45	Oxidized Single-Walled Carbon Nanotubes: Removal of Carbonaceous Functionalized Material by Washing with Solvents or Base. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1362, 1		
44	Molecular Engineering of Nonplanar Porphyrin and Carbon Nanotube Assemblies: A Linear and Nonlinear Spectroscopic and Modeling Study. <i>Journal of Nanotechnology</i> , 2011 , 2011, 1-12	3.5	54
43	Purified and Oxidized Single-Walled Carbon Nanotubes as Robust Near-IR Fluorescent Probes for Molecular Imaging. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18407-18413	3.8	29
42	The role of metal ions and counterions in the switching behavior of a carboxylic acid functionalized spiropyran. <i>Dalton Transactions</i> , 2010 , 39, 8269-77	4.3	55
41	Structural, spectroscopic, and anion-binding properties of 5,10-porphodimethenes, an unusual class of calixpyrins. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 2464-70	2.8	18
40	Functionalization of multilayer fullerenes (carbon nano-onions) using diazonium compounds and "click" chemistry. <i>Organic Letters</i> , 2010 , 12, 840-3	6.2	76
39	Determination of spiropyran cytotoxicity by high content screening and analysis for safe application in bionanosensing. <i>Chemical Research in Toxicology</i> , 2010 , 23, 1459-66	4	39
38	The balance between closed and open forms of spiropyrans in the solid state. <i>CrystEngComm</i> , 2010 , 12, 1027-1033	3.3	24

37	A photoswitchable Zn (II) selective spiropyran-based sensor. <i>Tetrahedron</i> , 2010 , 66, 7612-7617	2.4	79
36	Functionalization of single-walled carbon nanotubes with optically switchable spiropyrans. <i>Carbon</i> , 2010 , 48, 2815-2824	10.4	47
35	Spectroscopy of single-walled carbon nanotubes in aqueous surfactant dispersion. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2704-2707	1.3	9
34	Carbon nanotubes might improve neuronal performance by favouring electrical shortcuts. <i>Nature Nanotechnology</i> , 2009 , 4, 126-33	28.7	428
33	Multifunctional hybrid materials composed of [60]fullerene-based functionalized-single-walled carbon nanotubes. <i>Carbon</i> , 2009 , 47, 578-588	10.4	70
32	Organic functionalisation and characterisation of single-walled carbon nanotubes. <i>Chemical Society Reviews</i> , 2009 , 38, 2214-30	58.5	498
31	Effect of carbon nanotube surface modification on dispersion and structural properties of electrospun fibers. <i>Applied Physics Letters</i> , 2009 , 95, 233113	3.4	46
30	Diffusion-ordered NMR spectroscopy in the structural characterization of functionalized carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9086-93	16.4	35
29	Biomedical Applications of Functionalised Carbon Nanotubes. <i>Carbon Materials</i> , 2008 , 23-50		10
28	Antibody-gold quantum dot-PAMAM dendrimer complex as an immunoglobulin immunoassay. <i>Analyst, The</i> , 2008 , 133, 667-72	5	24
27	Towards Solutions of Single-Walled Carbon Nanotubes in Common Solvents. <i>Advanced Materials</i> , 2008 , 20, 1876-1881	24	299
26	Quantifying the contributions of inner-filter, re-absorption and aggregation effects in the photoluminescence of high-concentration conjugated polymer solutions. <i>Journal of Luminescence</i> , 2008 , 128, 31-40	3.8	23
25	Exfoliation in ecstasy: liquid crystal formation and concentration-dependent debundling observed for single-wall nanotubes dispersed in the liquid drug β -butyrolactone. <i>Nanotechnology</i> , 2007 , 18, 455705 ^{3,4}		43
24	Spectroscopic changes induced by sonication of porphyrin-carbon nanotube composites in chlorinated solvents. <i>Carbon</i> , 2007 , 45, 2665-2671	10.4	24
23	Sonication of porphyrin-carbon nanotube composites: a cautionary tale. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 4227-4230	1.3	6
22	Role of serotonergic gene polymorphisms on response to transcranial magnetic stimulation in depression. <i>European Neuropsychopharmacology</i> , 2007 , 17, 651-7	1.2	36
21	Reversible microwave-assisted cycloaddition of aziridines to carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14580-1	16.4	103
20	Immunoassay based on the antibody-conjugated PAMAM-dendrimer-gold quantum dot complex. <i>Chemical Communications</i> , 2006 , 5068-70	5.8	97

19	Debundling of single-walled nanotubes by dilution: observation of large populations of individual nanotubes in amide solvent dispersions. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15708-18	3.4	302
18	Linear and nonlinear optical characterization of a tetraphenylporphyrin-carbon nanotube composite system. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 23136-41	3.4	68
17	Fabrication of stable dispersions containing up to 70% individual carbon nanotubes in a common organic solvent. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3058-3062	1.3	37
16	EFFECT OF SOLVENT AND DISPERSANT ON THE BUNDLE DISSOCIATION OF SINGLE-WALLED CARBON NANOTUBES. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2006 , 211-212		
15	Effect of solvent and dispersant on the bundle dissociation of single-walled carbon nanotube 2005 ,		3
14	Fluorescence Modulation in Polymer Bilayers Containing Fluorescent and Photochromic Dopants. <i>Advanced Functional Materials</i> , 2005 , 15, 787-794	15.6	66
13	Effect of Solvents and Dispersants on the Bundle Dissociation of Single-walled Carbon Nanotube. <i>AIP Conference Proceedings</i> , 2005 ,	0	4
12	Characterisation of Single-walled Carbon Nanotube Bundle Dissociation in Amide Solvents. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
11	Does rTMS hasten the response to escitalopram, sertraline, or venlafaxine in patients with major depressive disorder? A double-blind, randomized, sham-controlled trial. <i>Journal of Clinical Psychiatry</i> , 2005 , 66, 1569-75	4.6	65
10	Photoinduced proton exchange between molecular switches. <i>Tetrahedron</i> , 2004 , 60, 10973-10981	2.4	65
9	Neuropsychological investigation of decision-making in anorexia nervosa. <i>Psychiatry Research</i> , 2004 , 127, 259-66	9.9	137
8	Memory effects based on intermolecular photoinduced proton transfer. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2361-4	16.4	175
7	A switch in a cage with a memory. <i>Organic Letters</i> , 2003 , 5, 3559-62	6.2	59
6	Digital processing with a three-state molecular switch. <i>Journal of Organic Chemistry</i> , 2003 , 68, 4158-69	4.2	176
5	All-optical processing with molecular switches. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 4941-4	11.5	180
4	Multichannel digital transmission in an optical network of communicating molecules. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2004-7	16.4	147
3	Signal processing at the molecular level. <i>Journal of the American Chemical Society</i> , 2001 , 123, 4651-2	16.4	330
2	Digital communication through intermolecular fluorescence modulation. <i>Organic Letters</i> , 2001 , 3, 1833-6.2		80

1 Signal communication between molecular switches. *Organic Letters*, **2001**, 3, 3475-8

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