Giampaolo Zuccheri

List of Publications by Year
in descending order

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72 papers	1,558 citations	318942 23 h-index	388640 36 g-index
75 all docs	75 docs citations	75 times ranked	2287 citing authors

#	Article	IF	Citations
1	Orthogonal nanoarchitectonics of M13 phage for receptor targeted anticancer photodynamic therapy. Nanoscale, 2022, 14, 632-641.	2.8	25
2	Epigenetics and Communication Mechanisms in Microglia Activation with a View on Technological Approaches. Biomolecules, 2021, 11, 306.	1.8	10
3	Mucoadhesive and mucopenetrating chitosan nanoparticles for glycopeptide antibiotic administration. International Journal of Pharmaceutics, 2021, 606, 120874.	2.6	23
4	A miRNA biosensor based on localized surface plasmon resonance enhanced by surface-bound hybridization chain reaction. Biosensors and Bioelectronics, 2020, 167, 112465.	5.3	61
5	Mixed morphology in low molar mass fluorinated block copolymers. Polymer, 2019, 179, 121657.	1.8	2
6	Film-nanoparticle composite for enhanced oral delivery of alpha-casozepine. Colloids and Surfaces B: Biointerfaces, 2019, 181, 149-157.	2.5	25
7	Cromolyn-crosslinked chitosan nanoparticles for the treatment of allergic rhinitis. European Journal of Pharmaceutical Sciences, 2019, 131, 136-145.	1.9	25
8	Microglial overexpression of fALS-linked mutant SOD1 induces SOD1 processing impairment, activation and neurotoxicity and is counteracted by the autophagy inducer trehalose. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 3771-3785.	1.8	24
9	Hierarchical Order in Dewetted Block Copolymer Thin Films on Chemically Patterned Surfaces. ACS Nano, 2018, 12, 7076-7085.	7.3	22
10	A colorimetric assay of DNA methyltransferase activity based on peroxidase mimicking of DNA template Ag/Pt bimetallic nanoclusters. Analytical and Bioanalytical Chemistry, 2018, 410, 4943-4952.	1.9	36
11	Hybridization Chain Reaction Design and Biosensor Implementation. Methods in Molecular Biology, 2018, 1811, 115-135.	0.4	10
12	Tau-Centric Multitarget Approach for Alzheimerâ€™s Disease: Development of First-in-Class Dual Glycogen Synthase Kinase 3Î² and Tau-Aggregation Inhibitors. Journal of Medicinal Chemistry, 2018, 61, 7640-7656.	2.9	81
13	High temperature surface neutralization process with random copolymers for block copolymer selfâ€assembly. Polymer International, 2017, 66, 459-467.	1.6	21
14	Intermolecular interactions between B. mori silk fibroin and poly(l-lactic acid) in electrospun composite nanofibrous scaffolds. Materials Science and Engineering C, 2017, 70, 777-787.	3.8	17
15	Chitosan nanoparticles for lipophilic anticancer drug delivery: Development, characterization and in vitro studies on HT29 cancer cells. Colloids and Surfaces B: Biointerfaces, 2016, 145, 362-372.	2.5	53
16	Neutral wetting brush layers for block copolymer thin films using homopolymer blends processed at high temperatures. Nanotechnology, 2015, 26, 415603.	1.3	15
17	Thickness and Microdomain Orientation of Asymmetric PS-b-PMMA Block Copolymer Films Inside Periodic Gratings. ACS Applied Materials & Interfaces, 2015, 7, 23615-23622.	4.0	11
18	Thermal Stability of Functional P(S-r-MMA) Random Copolymers for Nanolithographic Applications. ACS Applied Materials & Interfaces, 2015, 7, 3920-3930.	4.0	28

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19	Hybridization chain reaction performed on a metal surface as a means of signal amplification in SPR and electrochemical biosensors. Biosensors and Bioelectronics, 2014, 54, 102-108.	5.3	26
20	A practical approach for the detection of DNA nanostructures in single live human cells by fluorescence microscopy. Methods, 2014, 67, 185-192.	1.9	17
21	Preparation, Properties, and Self-Assembly Behavior of PTFE-Based Core-Shell Nanospheres. Journal of Nanomaterials, 2012, 2012, 1-15.	1.5	12
22	Preparation and Thermal Characterization of PTFE/PES Nanocomposites. Macromolecular Symposia, 2012, 311, 70-76.	0.4	9
23	Preparation, properties and self-assembly behavior of PTFE based core-shell nanospheres. AIP Conference Proceedings, 2012, , .	0.3	3
24	Preparation and Properties of PTFE-PMMA Core-Shell Nanoparticles and Nanocomposites. Journal of Nanotechnology, 2012, 2012, 1-10.	1.5	4
25	Quantitative, Label-Free Detection of the Aggregation ofÎ±-Synuclein Using Microcantilever Arrays Operated in a Liquid Environment. Journal of Sensors, 2012, 2012, 1-7.	0.6	7
26	DNA Nanotechnology. Methods in Molecular Biology, 2011, , .	0.4	8
27	On the multiple crystallization behavior of PTFE in PMMA/PTFE nanocomposites from coreâ€“shell nanoparticles. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 548-554.	2.4	15
28	Thermal and DMA Characterization of PTFEâ€PMMA Nanocomposites from Coreâ€Shell Nanoparticles. Macromolecular Symposia, 2010, 296, 197-202.	0.4	7
29	An open source/real-time atomic force microscope architecture to perform customizable force spectroscopy experiments. Review of Scientific Instruments, 2009, 80, 084301.	0.6	10
30	PMMAâ€based coreâ€shell nanoparticles with various PTFE cores. Journal of Polymer Science Part A, 2009, 47, 2928-2937.	2.5	24
31	PTFE-Based Coreâ˜Soft Shell Nanospheres and Soft Matrix Nanocomposites. Macromolecules, 2009, 42, 3518-3524.	2.2	37
32	Sample preparation for the quick sizing of metal nanoparticles by atomic force microscopy. Microscopy Research and Technique, 2008, 71, 870-879.	1.2	9
33	A Polymeric Molecular â€œHandleâ€for Multiple AFMâ€Based Singleâ€Molecule Force Measurements. Angewandte Chemie - International Edition, 2008, 47, 2431-2434.	7.2	30
34	DNA-based Parallelograms: a Retrospective or a Perspective?. AIP Conference Proceedings, 2008, , .	0.3	0
35	Single molecule fluorescence spectroscopy of pH sensitive oligonucleotide switches. Photochemical and Photobiological Sciences, 2007, 6, 614-618.	1.6	12
36	Radiopaque Organicâ˜Inorganic Hybrids Based on Poly(d,l-lactide). Biomacromolecules, 2007, 8, 672-678.	2.6	11

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37	Fully Electronic CMOS DNA Detection Array Based on Capacitance Measurement with On-Chip Analog-to-Digital Conversion. , 2006, , .		12
38	Characterization and modulation of the hierarchical self-assembly of nanostructured DNA tiles into supramolecular polymers. Organic and Biomolecular Chemistry, 2006, 4, 3427.	1.5	5
39	Mastering the complexity of DNA nanostructures. Trends in Biotechnology, 2006, 24, 235-243.	4.9	34
40	Towards an Increase of the Hierarchy in the Construction of DNA-Based Nanostructures Through the Integration of Inorganic Materials. Natural Computing Series, 2006, , 249-260.	2.2	0
41	DNA-BASED ARTIFICIAL NANOSTRUCTURES. Annual Review of Nano Research, 2006, , 531-572.	0.2	0
42	Automated DNA Fragments Recognition and Sizing Through AFM Image Processing. IEEE Transactions on Information Technology in Biomedicine, 2005, 9, 508-517.	3.6	22
43	Automatic Intrinsic DNA Curvature Computation From AFM Images. IEEE Transactions on Biomedical Engineering, 2005, 52, 2074-2086.	2.5	8
44	Protein Unfolding and Refolding Under Force: Methodologies for Nanomechanics. ChemPhysChem, 2005, 6, 29-34.	1.0	40
45	DNA Codes for Nanoscience. Angewandte Chemie - International Edition, 2005, 44, 1166-1181.	7.2	73
46	DNA Codes for Nanoscience. ChemInform, 2005, 36, no.	0.1	1
47	The Tube or the Helix? This is the Question: Towards the Fully Controlled DNA-Directed Assembly of Carbon Nanotubes. Small, 2005, 1, 590-592.	5.2	11
48	The dynamic properties of an intramolecular transition from DNA duplex to cytosineâ€“thymine motif triplex. Organic and Biomolecular Chemistry, 2005, 3, 575-577.	1.5	52
49	FULLY ELECTRONIC DNA DETECTION TECHNIQUE. , 2005, , .		0
50	Inside the Small Length and Energy Scales of the World of the Individual Biological Molecule. , 2005, , 111-137.		0
51	DNA detection by integrable electronics. Biosensors and Bioelectronics, 2004, 19, 781-787.	5.3	95
52	Single molecule studies of RNA secondary structure: AFM of TYMV viral RNA. Microscopy Research and Technique, 2004, 65, 235-245.	1.2	14
53	DNA on Surfaces: Adsorption, Equilibration and Recognition Processes from a Microscopistâ€²s View. ChemInform, 2003, 34, no.	0.1	1
54	Scanning Force Microscopy Studies of the Adsorption and Desorption of DNA at Solid-Liquid Interfaces. AIP Conference Proceedings, 2003, , .	0.3	0

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55	Recognition of the DNA sequence by an inorganic crystal surface. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13566-13570.	3.3	24
56	Scanning Force Microscopy Studies on the Structure and Dynamics of Single DNA Molecules. Methods in Cell Biology, 2002, 68, 357-395.	0.5	13
57	A Biosensor for Direct Detection of DNA Sequences Based on Capacitance Measurements. , 2002, , .		19
58	Sequence-Dependent DNA Curvature and Flexibility from Scanning Force Microscopy Images. Biophysical Journal, 2002, 83, 2408-2418.	0.2	68
59	DNA On Surfaces: Adsorption, Equilibration And Recognition Processes From A Microscopistâ€™s View. AIP Conference Proceedings, 2002, , .	0.3	2
60	Time-Lapse Imaging of Conformational Changes in Supercoiled DNA by Scanning Force Microscopy. Analytical Biochemistry, 2002, 300, 170-176.	1.1	32
61	Sequence-Dependent DNA Dynamics by Scanning Force Microscopy Time-Resolved Imaging. Chemistry and Biology, 2002, 9, 1315-1321.	6.2	16
62	Complex associates of plasmid DNA and a novel class of block copolymers with PEG and cationic segments as new vectors for gene delivery. Journal of Biomaterials Science, Polymer Edition, 2001, 12, 209-228.	1.9	19
63	Scanning Force Microscopy Study on a Single-Stranded DNA: The Genome of Parvovirus B19. ChemBioChem, 2001, 2, 199-204.	1.3	4
64	Mapping the intrinsic curvature and flexibility along the DNA chain. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 3074-3079.	3.3	76
65	Polynucleotide:Adenosine Glycosidase Is the Sole Activity of Ribosome-Inactivating Proteins on DNA. Journal of Biochemistry, 2000, 128, 883-889.	0.9	47
66	Conformational fluctuations of supercoiled DNA molecules observed in real time with a scanning force microscope. Applied Physics A: Materials Science and Processing, 1998, 66, S585-S589.	1.1	23
67	Visualization and Analysis of Chromatin by Scanning Force Microscopy. Methods, 1997, 12, 73-83.	1.9	46
68	Deposition on mica and scanning force microscopy imaging of DNA molecules whose original B structure is retained. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 1752-1754.	0.9	10
69	Writhing number of supercoiled DNA from its scanning force microscopy imaging. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 158.	1.6	6
70	DNA Supercoiling Imaged in Three Dimensions by Scanning Force Microscopy. Angewandte Chemie International Edition in English, 1993, 32, 1461-1463.	4.4	17
71	Dreidimensionale Abbildung der DNAâ€Superspiralisierung durch Rasterkraftmikroskopie. Angewandte Chemie, 1993, 105, 1482-1483.	1.6	7
72	Automated DNA sizing in atomic force microscope images. , 0, , .		4