

Roberto Fiammengo

List of Publications by Year in descending order

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40
papers

2,318
citations

185998

28
h-index

315357

38
g-index

42
all docs

42
docs citations

42
times ranked

3826
citing authors

#	ARTICLE	IF	CITATIONS
1	Absolute and Direct MicroRNA Quantification Using DNA-Gold Nanoparticle Probes. <i>Journal of the American Chemical Society</i> , 2014, 136, 2264-2267.	6.6	355
2	InP/ZnS as a safer alternative to CdSe/ZnS core/shell quantum dots: in vitro and in vivo toxicity assessment. <i>Nanoscale</i> , 2013, 5, 307-317.	2.8	281
3	Guest Encapsulation and Self-Assembly of Molecular Capsules in Polar Solvents via Multiple Ionic Interactions. <i>Journal of the American Chemical Society</i> , 2002, 124, 6569-6575.	6.6	122
4	Allylic Amination by a DNA-Diene-Iridium(II) Hybrid Catalyst. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4426-4429.	7.2	119
5	Gold-Nanoparticle-Based Colorimetric Discrimination of Cancer-Related Point Mutations with Picomolar Sensitivity. <i>ACS Nano</i> , 2013, 7, 5530-5538.	7.3	101
6	Conjugation of Peptides to the Passivation Shell of Gold Nanoparticles for Targeting of Cell-Surface Receptors. <i>ACS Nano</i> , 2010, 4, 6617-6628.	7.3	94
7	Impact of substrate elasticity on human hematopoietic stem and progenitor cell adhesion and motility. <i>Journal of Cell Science</i> , 2012, 125, 3765-75.	1.2	90
8	Polymeric Substrates with Tunable Elasticity and Nanoscopically Controlled Biomolecule Presentation. <i>Langmuir</i> , 2010, 26, 15472-15480.	1.6	75
9	Metallo dendrimers as Transphosphorylation Catalysts. <i>Journal of the American Chemical Society</i> , 2007, 129, 6982-6983.	6.6	65
10	Nucleic acid enzymes. <i>Current Opinion in Biotechnology</i> , 2005, 16, 614-21.	3.3	61
11	Nanotechnology-Based Strategies for the Detection and Quantification of MicroRNA. <i>Chemistry - A European Journal</i> , 2014, 20, 9476-9492.	1.7	56
12	Direct-written polymer field-effect transistors operating at 20%MHz. <i>Scientific Reports</i> , 2016, 6, 38941.	1.6	54
13	Quantification and Reactivity of Functional Groups in the Ligand Shell of PEGylated Gold Nanoparticles via a Fluorescence-Based Assay. <i>Langmuir</i> , 2009, 25, 7910-7917.	1.6	53
14	Structure-Based Design of Potent Tumor-Associated Antigens: Modulation of Peptide Presentation by Single-Atom O/S or O/Se Substitutions at the Glycosidic Linkage. <i>Journal of the American Chemical Society</i> , 2019, 141, 4063-4072.	6.6	51
15	Wearable piezoelectric mass sensor based on pH sensitive hydrogels for sweat pH monitoring. <i>Scientific Reports</i> , 2020, 10, 10854.	1.6	50
16	DNA-Based Phosphane Ligands. <i>Chemistry - A European Journal</i> , 2007, 13, 2089-2095.	1.7	49
17	Synthetic self-assembled models with biomimetic functions. <i>Current Opinion in Chemical Biology</i> , 2001, 5, 660-673.	2.8	47
18	Can nanotechnology improve cancer diagnosis through miRNA detection?. <i>Biomarkers in Medicine</i> , 2017, 11, 69-86.	0.6	47

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19	Glycopeptide-functionalized gold nanoparticles for antibody induction against the tumor associated mucin-1 glycoprotein. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 1132-1135.	1.4	46
20	Allosterically Activated Diels-Alder Catalysis by a Ribozyme. <i>Journal of the American Chemical Society</i> , 2005, 127, 10492-10493.	6.6	45
21	Efficient Preparation of Organic Substrate-RNA Conjugates via in Vitro Transcription. <i>Journal of the American Chemical Society</i> , 2005, 127, 9271-9276.	6.6	44
22	Recognition of Caffeine in Aqueous Solutions. <i>Chemistry - A European Journal</i> , 2003, 9, 784-792.	1.7	41
23	Highly stable cage-like complexes by self-assembly of tetracationic Zn(II) porphyrinates and tetrasulfonatocalix[4]arenes in polar solvents. <i>Chemical Communications</i> , 2000, , 2313-2314.	2.2	39
24	Noncovalent Secondary Interactions in Co(II)Salen Complexes: O ₂ Binding and Catalytic Activity in Cyclohexene Oxygenation. <i>Journal of Organic Chemistry</i> , 2002, 67, 8552-8557.	1.7	34
25	Non-covalent synthesis of calix[4]arene-capped porphyrins in polar solvents via ionic interactions. <i>Tetrahedron</i> , 2002, 58, 757-764.	1.0	34
26	Heme-Protein Active Site Models via Self-Assembly in Water. <i>Organic Letters</i> , 2003, 5, 3367-3370.	2.4	34
27	Microfabrication of pH-responsive 3D hydrogel structures via two-photon polymerization of high-molecular-weight poly(ethylene glycol) diacrylates. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 418-426.	4.0	34
28	Inhibition of Leptin-ObR Interaction Does not Prevent Leptin Translocation Across a Human Blood-Brain Barrier Model. <i>Journal of Neuroendocrinology</i> , 2016, 28, .	1.2	28
29	Reversible site-specific tagging of enzymatically synthesized RNAs using aldehyde-hydrazine chemistry and protease-cleavable linkers. <i>Nucleic Acids Research</i> , 2007, 35, e25.	6.5	27
30	Duality of Mechanism in the Tetramethylfluoroformamidinium Hexafluorophosphate-Mediated Synthesis of N-Benzyloxycarbonylamino Acid Fluorides. <i>Journal of Organic Chemistry</i> , 2001, 66, 5905-5910.	1.7	25
31	Mag: a C ¹⁵ -Methylated, Side-chain Unsaturated L ¹ -Amino Acid. Introduction into Model Peptides and Conformational Preference. <i>Tetrahedron</i> , 2000, 56, 3589-3601.	1.0	18
32	Gold Nanoparticles Functionalized with RGD Semipeptides: A Simple yet Highly Effective Targeting System for $\alpha_5\beta_1$ Integrins. <i>Chemistry - A European Journal</i> , 2018, 24, 12093-12100.	1.7	17
33	Complexation of Porphyrin-Appended Guests by Calix[4]arene-Appended Cyclodextrins. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2001, 41, 163-172.	1.6	15
34	Structural characterization of an unprecedented lectin-like antitumoral anti-MUC1 antibody. <i>Chemical Communications</i> , 2020, 56, 15137-15140.	2.2	10
35	Conopeptide-Functionalized Nanoparticles Selectively Antagonize Extrasynaptic N-Methyl-D-aspartate Receptors and Protect Hippocampal Neurons from Excitotoxicity In Vitro. <i>ACS Nano</i> , 2020, 14, 6866-6877.	7.3	10
36	Directional Immobilization of Proteins on Gold Nanoparticles Is Essential for Their Biological Activity: Leptin as a Case Study. <i>Bioconjugate Chemistry</i> , 2020, 31, 74-81.	1.8	5

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37	Label-free biomechanical nanosensor based on LSPR for biological applications. <i>Optical Materials Express</i> , 2020, 10, 1264.	1.6	4
38	Mimicking the Cellular Environment: Effects of Elastic Nanopatterned Substrates on Integrin-Mediated Cellular Interactions. <i>Biophysical Journal</i> , 2010, 98, 729a.	0.2	0
39	Reply to Comment on Conopeptide-Functionalized Nanoparticles Selectively Antagonize Extrasynaptic N-Methyl-d-aspartate Receptors and Protect Hippocampal Neurons from Excitotoxicity In Vitro. <i>ACS Nano</i> , 2021, 15, 15409-15417.	7.3	0
40	Impact of substrate elasticity on human hematopoietic stem and progenitor cell adhesion and motility. <i>Development (Cambridge)</i> , 2012, 139, e1-e1.	1.2	0