

Marco Frasconi

List of Publications by Year in descending order

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86
papers

5,786
citations

81839

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76872

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95
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95
docs citations

95
times ranked

8557
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into the Gelation Mechanism of Metal-Coordinated Hydrogels by Paramagnetic NMR Spectroscopy and Molecular Dynamics. <i>Macromolecules</i> , 2022, 55, 450-461.	2.2	14
2	Supramolecular modulation of the mechanical properties of amino acid-functionalized cellulose nanocrystal films. <i>Materials Today Chemistry</i> , 2022, 24, 100886.	1.7	7
3	$\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$	3.1	6
4	Nanozyme-Cellulose Hydrogel Composites Enabling Cascade Catalysis for the Colorimetric Detection of Glucose. <i>ACS Applied Nano Materials</i> , 2022, 5, 13845-13853.	2.4	20
5	Electrochemical Switching of a Fluorescent Molecular Rotor Embedded within a Bistable Rotaxane. <i>Journal of the American Chemical Society</i> , 2020, 142, 11835-11846.	6.6	43
6	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.	4.0	17
7	Neighboring Component Effect in a Tri-stable [2]Rotaxane. <i>Journal of the American Chemical Society</i> , 2018, 140, 13827-13834.	6.6	22
8	Mixed-Valence Superstructure Assembled from a Mixed-Valence Host-Guest Complex. <i>Journal of the American Chemical Society</i> , 2018, 140, 9387-9391.	6.6	18
9	Photo-Responsive Graphene and Carbon Nanotubes to Control and Tackle Biological Systems. <i>Frontiers in Chemistry</i> , 2018, 6, 102.	1.8	27
10	Surface plasmon resonance in gold nanoparticles: a review. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 203002.	0.7	1,184
11	Porous graphite oxide pillared with tetrapod-shaped molecules. <i>Carbon</i> , 2017, 120, 145-156.	5.4	29
12	Ion Pair Formation between Tertiary Aliphatic Amines and Perchlorate in the Biphasic Water/Dichloromethane System. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9403-9410.	1.2	1
13	Introducing Stable Radicals into Molecular Machines. <i>ACS Central Science</i> , 2017, 3, 927-935.	5.3	102
14	Sliding-Ring Catenanes. <i>Journal of the American Chemical Society</i> , 2016, 138, 10214-10225.	6.6	33
15	Oligorotaxane Radicals under Orders. <i>ACS Central Science</i> , 2016, 2, 89-98.	5.3	47
16	Influence of Constitution and Charge on Radical Pairing Interactions in Tris-radical Tricationic Complexes. <i>Journal of the American Chemical Society</i> , 2016, 138, 8288-8300.	6.6	29
17	Quantum Mechanical and Experimental Validation that Cyclobis(paraquat-phenylene) Forms a 1:1 Inclusion Complex with Tetrathiafulvalene. <i>Chemistry - A European Journal</i> , 2016, 22, 2736-2745.	1.7	9
18	Highly surface functionalized carbon nano-onions for bright light bioimaging. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 044005.	1.1	40

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19	Multi-Functionalized Carbon Nano-onions as Imaging Probes for Cancer Cells. Chemistry - A European Journal, 2015, 21, 19071-19080.	1.7	74
20	Non-covalent functionalization of carbon nano-onions with pyrene-BODIPY dyads for biological imaging. RSC Advances, 2015, 5, 50253-50258.	1.7	51
21	Formation of ring-in-ring complexes between crown ethers and rigid TVBox ⁸⁺ . Chemical Communications, 2015, 51, 1432-1435.	2.2	19
22	Controlling association kinetics in the formation of donor-acceptor pseudorotaxanes. Tetrahedron Letters, 2015, 56, 3591-3594.	0.7	22
23	Complexation of Polyoxometalates with Cyclodextrins. Journal of the American Chemical Society, 2015, 137, 4111-4118.	6.6	150
24	Redox Control of the Binding Modes of an Organic Receptor. Journal of the American Chemical Society, 2015, 137, 11057-11068.	6.6	55
25	Esterase- and pH-responsive poly(² -amino ester)-capped mesoporous silica nanoparticles for drug delivery. Nanoscale, 2015, 7, 7178-7183.	2.8	75
26	Ultrafast Photoinduced Symmetry-Breaking Charge Separation and Electron Sharing in Perylenediimide Molecular Triangles. Journal of the American Chemical Society, 2015, 137, 13236-13239.	6.6	130
27	Folding of Oligoviologens Induced by Radical-Radical Interactions. Journal of the American Chemical Society, 2015, 137, 876-885.	6.6	65
28	Sugar and pH dual-responsive mesoporous silica nanocontainers based on competitive binding mechanisms. Nanoscale, 2015, 7, 1067-1072.	2.8	41
29	Energetically Demanding Transport in a Supramolecular Assembly. Journal of the American Chemical Society, 2014, 136, 14702-14705.	6.6	72
30	Relative contractile motion of the rings in a switchable palindromic [3]rotaxane in aqueous solution driven by radical-pairing interactions. Organic and Biomolecular Chemistry, 2014, 12, 6089-6093.	1.5	25
31	An Electrochemically and Thermally Switchable Donor-Acceptor [2]Daisy Chain Rotaxane. Angewandte Chemie - International Edition, 2014, 53, 1953-1958.	7.2	62
32	NIR fluorescence labelled carbon nano-onions: synthesis, analysis and cellular imaging. Journal of Materials Chemistry B, 2014, 2, 7459-7463.	2.9	70
33	A Square-Planar Tetracoordinate Oxygen-Containing Ti ₄ O ₁₇ Cluster Stabilized by Two 1,1'-Ferrocenedicarboxylato Ligands. Angewandte Chemie - International Edition, 2014, 53, 9193-9197.	7.2	41
34	Solid-State Characterization and Photoinduced Intramolecular Electron Transfer in a Nanoconfined Octacationic Homo[2]Catenane. Journal of the American Chemical Society, 2014, 136, 10569-10572.	6.6	32
35	Electron Delocalization in a Rigid Cofacial Naphthalene-1,8:4,5-bis(dicarboximide) Dimer. Angewandte Chemie - International Edition, 2014, 53, 9476-9481.	7.2	122
36	Photocurrent generation from a low band-gap and green BODIPY-based electrochromic polymer. Synthetic Metals, 2014, 197, 52-57.	2.1	12

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37	Mechanical Bonds and Topological Effects in Radical Dimer Stabilization. <i>Journal of the American Chemical Society</i> , 2014, 136, 11011-11026.	6.6	47
38	Redox Switchable Daisy Chain Rotaxanes Driven by Radical-Radical Interactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 4714-4723.	6.6	122
39	Electron Sharing and Anion Recognition in Molecular Triangular Prisms. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13100-13104.	7.2	160
40	π-Dimerization of viologen subunits around the core of C60 from twelve to six directions. <i>Chemical Science</i> , 2013, 4, 1462.	3.7	47
41	β-Cyclodextrin Cuprate Sandwich-Type Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 2854-2861.	1.9	29
42	A Radically Configurable Six-State Compound. <i>Science</i> , 2013, 339, 429-433.	6.0	158
43	Redox-Controlled Selective Docking in a [2]Catenane Host. <i>Journal of the American Chemical Society</i> , 2013, 135, 2466-2469.	6.6	27
44	Selective isolation of gold facilitated by second-sphere coordination with β-cyclodextrin. <i>Nature Communications</i> , 2013, 4, 1855.	5.8	156
45	Photoexpulsion of Surface-Grafted Ruthenium Complexes and Subsequent Release of Cytotoxic Cargos to Cancer Cells from Mesoporous Silica Nanoparticles. <i>Journal of the American Chemical Society</i> , 2013, 135, 11603-11613.	6.6	128
46	New Methods for Improved Characterization of Silica Nanoparticle-Based Drug Delivery Systems. <i>Langmuir</i> , 2013, 29, 15386-15393.	1.6	39
47	Relative Unidirectional Translation in an Artificial Molecular Assembly Fueled by Light. <i>Journal of the American Chemical Society</i> , 2013, 135, 18609-18620.	6.6	112
48	ExBox: A Polycyclic Aromatic Hydrocarbon Scavenger. <i>Journal of the American Chemical Society</i> , 2013, 135, 183-192.	6.6	275
49	Patterned Assembly of Quantum Dots onto Surfaces Modified with Click Microcontact Printing. <i>Advanced Materials</i> , 2013, 25, 223-226.	11.1	14
50	Electron Sharing and Anion Recognition in Molecular Triangular Prisms (<i>Angew.</i>)	1.6	0
51	Mechanically induced intramolecular electron transfer in a mixed-valence molecular shuttle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11546-11551.	3.3	46
52	A Neutral Naphthalene Diimide [2]Rotaxane. <i>Organic Letters</i> , 2012, 14, 5188-5191.	2.4	34
53	Electrochemically Controlled Assembly and Logic Gates Operations of Gold Nanoparticle Arrays. <i>Langmuir</i> , 2012, 28, 3322-3331.	1.6	30
54	Stimulated Release of Size-Selected Cargos in Succession from Mesoporous Silica Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5460-5465.	7.2	157

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55	Interaction of ERp57 with calreticulin: Analysis of complex formation and effects of vancomycin. <i>Biophysical Chemistry</i> , 2012, 160, 46-53.	1.5	10
56	Aptamer-based and DNAzyme-based biosensors for environmental monitoring. <i>International Journal of Environment and Health</i> , 2011, 5, 186.	0.3	2
57	Wiring of Redox Enzymes on Three Dimensional Self-Assembled Molecular Scaffold. <i>Langmuir</i> , 2011, 27, 12606-12613.	1.6	17
58	Chemically Modified Multiwalled Carbon Nanotubes Electrodes with Ferrocene Derivatives through Reactive Landing. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4863-4871.	1.5	23
59	Azurin modulates the association of Mdm2 with p53: SPR evidence from interaction of the full-length proteins. <i>Journal of Molecular Recognition</i> , 2011, 24, 707-714.	1.1	26
60	Highly-Ordered Covalent Anchoring of Carbon Nanotubes on Electrode Surfaces by Diazonium Salt Reactions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3457-3461.	7.2	35
61	Spatially Oriented and Reversible Surface Assembly of Single-Walled Carbon Nanotubes: A Strategy Based on π - π Interactions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7074-7078.	7.2	14
62	Surface Plasmon Resonance Analysis of Antibiotics Using Imprinted Boronic Acid-Functionalized Au Nanoparticle Composites. <i>Analytical Chemistry</i> , 2010, 82, 2512-2519.	3.2	183
63	Protein immobilization at gold-thiol surfaces and potential for biosensing. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1545-1564.	1.9	132
64	Stereoselective and Chiroselective Surface Plasmon Resonance (SPR) Analysis of Amino Acids by Molecularly Imprinted Au-Nanoparticle Composites. <i>Chemistry - A European Journal</i> , 2010, 16, 7114-7120.	1.7	64
65	Laccase-polyazetidene prepolymer-MWCNT integrated system: Biochemical properties and application to analytical determinations in real samples. <i>Microchemical Journal</i> , 2010, 96, 301-307.	2.3	31
66	Kinetic and biochemical properties of high and low redox potential laccases from fungal and plant origin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 899-908.	1.1	101
67	Electrochemical evaluation of electron transfer kinetics of high and low redox potential laccases on gold electrode surface. <i>Electrochimica Acta</i> , 2010, 56, 817-827.	2.6	41
68	Surface plasmon resonance biosensors for environmental analysis: general aspects and applications. <i>International Journal of Environment and Health</i> , 2010, 4, 305.	0.3	2
69	Multifunctional Au Nanoparticle Dendrimer-Based Surface Plasmon Resonance Biosensor and Its Application for Improved Insulin Detection. <i>Analytical Chemistry</i> , 2010, 82, 7335-7342.	3.2	126
70	Electrochemically Stimulated pH Changes: A Route To Control Chemical Reactivity. <i>Journal of the American Chemical Society</i> , 2010, 132, 2029-2036.	6.6	44
71	Electrified Selective Sponges-Made of Au Nanoparticles. <i>Journal of the American Chemical Society</i> , 2010, 132, 9373-9382.	6.6	43
72	Nanostructured materials based on the integration of ferrocenyl-tethered dendrimer and redox proteins on self-assembled monolayers: an efficient biosensor interface. <i>Nanotechnology</i> , 2009, 20, 505501.	1.3	14

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73	Bioelectrochemical Characterization of Horseradish and Soybean Peroxidases. <i>Electroanalysis</i> , 2009, 21, 2378-2386.	1.5	5
74	Kinetic and redox properties of MnP II, a major manganese peroxidase isoenzyme from <i>Panus tigrinus</i> CBS 577.79. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 1153-1163.	1.1	21
75	Polyazetidine-based immobilization of redox proteins for electron-transfer-based biosensors. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1424-1430.	5.3	21
76	Surface plasmon resonance immunosensor for cortisol and cortisone determination. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 2151-2159.	1.9	63
77	Scleroglucan-Borax Hydrogel: A Flexible Tool for Redox Protein Immobilization. <i>Langmuir</i> , 2009, 25, 11097-11104.	1.6	7
78	Ferrocenyl Alkanethiols~Thio β -Cyclodextrin Mixed Self-Assembled Monolayers: Evidence of Ferrocene Electron Shuttling Through the β -Cyclodextrin Cavity. <i>Langmuir</i> , 2009, 25, 12937-12944.	1.6	21
79	Electrochemical and surface plasmon resonance characterization of β -cyclodextrin-based self-assembled monolayers and evaluation of their inclusion complexes with glucocorticoids. <i>Nanotechnology</i> , 2009, 20, 285502.	1.3	7
80	Electron-Transfer Kinetics of Microperoxidase-11 Covalently Immobilised onto the Surface of Multi-Walled Carbon Nanotubes by Reactive Landing of Mass-Selected Ions. <i>Chemistry - A European Journal</i> , 2009, 15, 7359-7367.	1.7	40
81	Electrochemical Kinetic Characterization of Redox Mediated Glucose Oxidase Reactions: A Simplified Approach. <i>Electroanalysis</i> , 2008, 20, 163-169.	1.5	23
82	Soft-Landed Protein Voltammetry: A Tool for Redox Protein Characterization. <i>Analytical Chemistry</i> , 2008, 80, 5937-5944.	3.2	35
83	Following the Biocatalytic Activities of Glucose Oxidase by Electrochemically Cross-Linked Enzyme~Pt Nanoparticles Composite Electrodes. <i>Analytical Chemistry</i> , 2008, 80, 8253-8259.	3.2	69
84	Soft landed protein voltammetry. <i>Chemical Communications</i> , 2007, , 3494.	2.2	23
85	Selenium speciation in foods: Preliminary results on potatoes. <i>Microchemical Journal</i> , 2007, 85, 222-227.	2.3	33
86	Determination of Se(IV) and Se(VI) in Italian Mineral Waters. <i>Annali Di Chimica</i> , 2006, 96, 647-656.	0.6	4