# Marco Frasconi

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8143493/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 86 papers | 5,786 citations | 81900 39 h-index | 76900 74 g-index |
| 95 all docs | 95 docs citations | 95 times ranked | 8557 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Surface plasmon resonance in gold nanoparticles: a review. Journal of Physics Condensed Matter, 2017, 29, 203002. | 1.8 | 1,184 |
| 2 | ExBox: A Polycyclic Aromatic Hydrocarbon Scavenger. Journal of the American Chemical Society, 2013, 135, 183-192. | 13.7 | 275 |
| 3 | Surface Plasmon Resonance Analysis of Antibiotics Using Imprinted Boronic Acid-Functionalized Au Nanoparticle Composites. Analytical Chemistry, 2010, 82, 2512-2519. | 6.5 | 183 |
| 4 | Electron Sharing and Anionâ€“Ï€ Recognition in Molecular Triangular Prisms. Angewandte Chemie - International Edition, 2013, 52, 13100-13104. | 13.8 | 160 |
| 5 | A Radically Configurable Six-State Compound. Science, 2013, 339, 429-433. | 12.6 | 158 |
| 6 | Stimulated Release of Sizeâ€Selected Cargos in Succession from Mesoporous Silica Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 5460-5465. | 13.8 | 157 |
| 7 | Selective isolation of gold facilitated by second-sphere coordination with Î±-cyclodextrin. Nature Communications, 2013, 4, 1855. | 12.8 | 156 |
| 8 | Complexation of Polyoxometalates with Cyclodextrins. Journal of the American Chemical Society, 2015, 137, 4111-4118. | 13.7 | 150 |
| 9 | Protein immobilization at goldâ€“thiol surfaces and potential for biosensing. Analytical and Bioanalytical Chemistry, 2010, 398, 1545-1564. | 3.7 | 132 |
| 10 | Ultrafast Photoinduced Symmetry-Breaking Charge Separation and Electron Sharing in Perylenediimide Molecular Triangles. Journal of the American Chemical Society, 2015, 137, 13236-13239. | 13.7 | 130 |
| 11 | Photoexpulsion of Surface-Grafted Ruthenium Complexes and Subsequent Release of Cytotoxic Cargos to Cancer Cells from Mesoporous Silica Nanoparticles. Journal of the American Chemical Society, 2013, 135, 11603-11613. | 13.7 | 128 |
| 12 | Multifunctional Au Nanoparticle Dendrimer-Based Surface Plasmon Resonance Biosensor and Its Application for Improved Insulin Detection. Analytical Chemistry, 2010, 82, 7335-7342. | 6.5 | 126 |
| 13 | Electron Delocalization in a Rigid Cofacial Naphthaleneâ€1,8:4,5â€bis(dicarboximide) Dimer. Angewandte Chemie - International Edition, 2014, 53, 9476-9481. | 13.8 | 122 |
| 14 | Redox Switchable Daisy Chain Rotaxanes Driven by Radicalâ€“Radical Interactions. Journal of the American Chemical Society, 2014, 136, 4714-4723. | 13.7 | 122 |
| 15 | Relative Unidirectional Translation in an Artificial Molecular Assembly Fueled by Light. Journal of the American Chemical Society, 2013, 135, 18609-18620. | 13.7 | 112 |
| 16 | Introducing Stable Radicals into Molecular Machines. ACS Central Science, 2017, 3, 927-935. | 11.3 | 102 |
| 17 | Kinetic and biochemical properties of high and low redox potential laccases from fungal and plant origin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 899-908. | 2.3 | 101 |
| 18 | Esterase- and pH-responsive poly(Î²-amino ester)-capped mesoporous silica nanoparticles for drug delivery. Nanoscale, 2015, 7, 7178-7183. | 5.6 | 75 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Multiâ€Functionalized Carbon Nanoâ€onions as Imaging Probes for Cancer Cells. Chemistry - A European Journal, 2015, 21, 19071-19080. | 3.3 | 74 |
| 20 | Energetically Demanding Transport in a Supramolecular Assembly. Journal of the American Chemical Society, 2014, 136, 14702-14705. | 13.7 | 72 |
| 21 | NIR fluorescence labelled carbon nano-onions: synthesis, analysis and cellular imaging. Journal of Materials Chemistry B, 2014, 2, 7459-7463. | 5.8 | 70 |
| 22 | Following the Biocatalytic Activities of Glucose Oxidase by Electrochemically Cross-Linked Enzymeâ^'Pt Nanoparticles Composite Electrodes. Analytical Chemistry, 2008, 80, 8253-8259. | 6.5 | 69 |
| 23 | Folding of Oligoviologens Induced by Radicalâ€“Radical Interactions. Journal of the American Chemical Society, 2015, 137, 876-885. | 13.7 | 65 |
| 24 | Stereoselective and Chiroselective Surface Plasmon Resonance (SPR) Analysis of Amino Acids by Molecularly Imprinted Auâ€Nanoparticle Composites. Chemistry - A European Journal, 2010, 16, 7114-7120. | 3.3 | 64 |
| 25 | Surface plasmon resonance immunosensor for cortisol and cortisone determination. Analytical and Bioanalytical Chemistry, 2009, 394, 2151-2159. | 3.7 | 63 |
| 26 | An Electrochemically and Thermally Switchable Donorâ€“Acceptor [c2]Daisy Chain Rotaxane. Angewandte Chemie - International Edition, 2014, 53, 1953-1958. | 13.8 | 62 |
| 27 | Redox Control of the Binding Modes of an Organic Receptor. Journal of the American Chemical Society, 2015, 137, 11057-11068. | 13.7 | 55 |
| 28 | Non-covalent functionalization of carbon nano-onions with pyreneâ€“BODIPY dyads for biological imaging. RSC Advances, 2015, 5, 50253-50258. | 3.6 | 51 |
| 29 | Ï€-Dimerization of viologen subunits around the core of C60 from twelve to six directions. Chemical Science, 2013, 4, 1462. | 7.4 | 47 |
| 30 | Mechanical Bonds and Topological Effects in Radical Dimer Stabilization. Journal of the American Chemical Society, 2014, 136, 11011-11026. | 13.7 | 47 |
| 31 | Oligorotaxane Radicals under Orders. ACS Central Science, 2016, 2, 89-98. | 11.3 | 47 |
| 32 | Mechanically induced intramolecular electron transfer in a mixed-valence molecular shuttle. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11546-11551. | 7.1 | 46 |
| 33 | Electrochemically Stimulated pH Changes: A Route To Control Chemical Reactivity. Journal of the American Chemical Society, 2010, 132, 2029-2036. | 13.7 | 44 |
| 34 | Electrified Selective â€œSpongesâ€•Made of Au Nanoparticles. Journal of the American Chemical Society, 2010, 132, 9373-9382. | 13.7 | 43 |
| 35 | Electrochemical Switching of a Fluorescent Molecular Rotor Embedded within a Bistable Rotaxane. Journal of the American Chemical Society, 2020, 142, 11835-11846. | 13.7 | 43 |
| 36 | Electrochemical evaluation of electron transfer kinetics of high and low redox potential laccases on gold electrode surface. Electrochimica Acta, 2010, 56, 817-827. | 5.2 | 41 |

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|---|---|---|---|
| 37 | A Squareâ€Planar Tetracoordinate Oxygenâ€Containing Ti<sub>4</sub>O<sub>17</sub> Cluster Stabilized by Two 1,1â€²â€Ferrocenedicarboxylato Ligands. Angewandte Chemie - International Edition, 2014, 53, 9193-9197. | 13.8 | 41 |
| 38 | Sugar and pH dual-responsive mesoporous silica nanocontainers based on competitive binding mechanisms. Nanoscale, 2015, 7, 1067-1072. | 5.6 | 41 |
| 39 | Electronâ€Transfer Kinetics of Microperoxidaseâ€11 Covalently Immobilised onto the Surface of Multiâ€Walled Carbon Nanotubes by Reactive Landing of Massâ€Selected Ions. Chemistry - A European Journal, 2009, 15, 7359-7367. | 3.3 | 40 |
| 40 | Highly surface functionalized carbon nano-onions for bright light bioimaging. Methods and Applications in Fluorescence, 2015, 3, 044005. | 2.3 | 40 |
| 41 | New Methods for Improved Characterization of Silica Nanoparticle-Based Drug Delivery Systems. Langmuir, 2013, 29, 15386-15393. | 3.5 | 39 |
| 42 | Soft-Landed Protein Voltammetry: A Tool for Redox Protein Characterization. Analytical Chemistry, 2008, 80, 5937-5944. | 6.5 | 35 |
| 43 | Highlyâ€Ordered Covalent Anchoring of Carbon Nanotubes on Electrode Surfaces by Diazonium Salt Reactions. Angewandte Chemie - International Edition, 2011, 50, 3457-3461. | 13.8 | 35 |
| 44 | A Neutral Naphthalene Diimide [2]Rotaxane. Organic Letters, 2012, 14, 5188-5191. | 4.6 | 34 |
| 45 | Selenium speciation in foods: Preliminary results on potatoes. Microchemical Journal, 2007, 85, 222-227. | 4.5 | 33 |
| 46 | Sliding-Ring Catenanes. Journal of the American Chemical Society, 2016, 138, 10214-10225. | 13.7 | 33 |
| 47 | 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. | 13.7 | 32 |
| 48 | Laccaseâ€“polyazetidine prepolymerâ€“MWCNT integrated system: Biochemical properties and application to analytical determinations in real samples. Microchemical Journal, 2010, 96, 301-307. | 4.5 | 31 |
| 49 | Electrochemically Controlled Assembly and Logic Gates Operations of Gold Nanoparticle Arrays. Langmuir, 2012, 28, 3322-3331. | 3.5 | 30 |
| 50 | Î³-Cyclodextrin Cuprate Sandwich-Type Complexes. Inorganic Chemistry, 2013, 52, 2854-2861. | 4.0 | 29 |
| 51 | Influence of Constitution and Charge on Radical Pairing Interactions in Tris-radical Tricationic Complexes. Journal of the American Chemical Society, 2016, 138, 8288-8300. | 13.7 | 29 |
| 52 | Porous graphite oxide pillared with tetrapod-shaped molecules. Carbon, 2017, 120, 145-156. | 10.3 | 29 |
| 53 | Redox-Controlled Selective Docking in a [2]Catenane Host. Journal of the American Chemical Society, 2013, 135, 2466-2469. | 13.7 | 27 |
| 54 | Photo-Responsive Graphene and Carbon Nanotubes to Control and Tackle Biological Systems. Frontiers in Chemistry, 2018, 6, 102. | 3.6 | 27 |

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|---|---|---|---|
| 55 | Azurin modulates the association of Mdm2 with p53: SPR evidence from interaction of the fullâ€length proteins. Journal of Molecular Recognition, 2011, 24, 707-714. | 2.1 | 26 |
| 56 | 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. | 2.8 | 25 |
| 57 | Soft landed protein voltammetry. Chemical Communications, 2007, , 3494. | 4.1 | 23 |
| 58 | Electrochemical Kinetic Characterization of Redox Mediated Glucose Oxidase Reactions: A Simplified Approach. Electroanalysis, 2008, 20, 163-169. | 2.9 | 23 |
| 59 | Chemically Modified Multiwalled Carbon Nanotubes Electrodes with Ferrocene Derivatives through Reactive Landing. Journal of Physical Chemistry C, 2011, 115, 4863-4871. | 3.1 | 23 |
| 60 | Controlling association kinetics in the formation of donorâ€“acceptor pseudorotaxanes. Tetrahedron Letters, 2015, 56, 3591-3594. | 1.4 | 22 |
| 61 | Neighboring Component Effect in a Tri-stable [2]Rotaxane. Journal of the American Chemical Society, 2018, 140, 13827-13834. | 13.7 | 22 |
| 62 | Kinetic and redox properties of MnP II, a major manganese peroxidase isoenzyme from Panus tigrinus CBS 577.79. Journal of Biological Inorganic Chemistry, 2009, 14, 1153-1163. | 2.6 | 21 |
| 63 | Polyazetidine-based immobilization of redox proteins for electron-transfer-based biosensors. Biosensors and Bioelectronics, 2009, 24, 1424-1430. | 10.1 | 21 |
| 64 | Ferrocenyl Alkanethiolsâ^'Thio Î²-Cyclodextrin Mixed Self-Assembled Monolayers: Evidence of Ferrocene Electron Shuttling Through the Î²-Cyclodextrin Cavity. Langmuir, 2009, 25, 12937-12944. | 3.5 | 21 |
| 65 | Nanozymeâ€“Cellulose Hydrogel Composites Enabling Cascade Catalysis for the Colorimetric Detection of Glucose. ACS Applied Nano Materials, 2022, 5, 13845-13853. | 5.0 | 20 |
| 66 | Formation of ring-in-ring complexes between crown ethers and rigid TVBox<sup>8+</sup>. Chemical Communications, 2015, 51, 1432-1435. | 4.1 | 19 |
| 67 | Mixed-Valence Superstructure Assembled from a Mixed-Valence Hostâ€“Guest Complex. Journal of the American Chemical Society, 2018, 140, 9387-9391. | 13.7 | 18 |
| 68 | Wiring of Redox Enzymes on Three Dimensional Self-Assembled Molecular Scaffold. Langmuir, 2011, 27, 12606-12613. | 3.5 | 17 |
| 69 | Internalization of Carbon Nano-onions by Hippocampal Cells Preserves Neuronal Circuit Function and Recognition Memory. ACS Applied Materials & Interfaces, 2018, 10, 16952-16963. | 8.0 | 17 |
| 70 | Nanostructured materials based on the integration of ferrocenyl-tethered dendrimer and redox proteins on self-assembled monolayers: an efficient biosensor interface. Nanotechnology, 2009, 20, 505501. | 2.6 | 14 |
| 71 | Spatially Oriented and Reversible Surface Assembly of Singleâ€Walled Carbon Nanotubes: A Strategy Based on Ï€â€“Ï€ Interactions. Angewandte Chemie - International Edition, 2011, 50, 7074-7078. | 13.8 | 14 |
| 72 | Patterned Assembly of Quantum Dots onto Surfaces Modified with Click Microcontact Printing. Advanced Materials, 2013, 25, 223-226. | 21.0 | 14 |

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| 73 | Insights into the Gelation Mechanism of Metal-Coordinated Hydrogels by Paramagnetic NMR Spectroscopy and Molecular Dynamics. Macromolecules, 2022, 55, 450-461. | 4.8 | 14 |
| 74 | Photocurrent generation from a low band-gap and green BODIPY-based electrochromic polymer. Synthetic Metals, 2014, 197, 52-57. | 3.9 | 12 |
| 75 | Interaction of ERp57 with calreticulin: Analysis of complex formation and effects of vancomycin. Biophysical Chemistry, 2012, 160, 46-53. | 2.8 | 10 |
| 76 | Quantum Mechanical and Experimental Validation that Cyclobis(paraquatâ€pâ€phenylene) Forms a 1:1 Inclusion Complex with Tetrathiafulvalene. Chemistry - A European Journal, 2016, 22, 2736-2745. | 3.3 | 9 |
| 77 | Scleroglucan-Borax Hydrogel: A Flexible Tool for Redox Protein Immobilization. Langmuir, 2009, 25, 11097-11104. | 3.5 | 7 |
| 78 | Electrochemical and surface plasmon resonance characterization of Î²-cyclodextrin-based self-assembled monolayers and evaluation of their inclusion complexes with glucocorticoids. Nanotechnology, 2009, 20, 285502. | 2.6 | 7 |
| 79 | Supramolecular modulation of the mechanical properties of amino acid-functionalized cellulose nanocrystal films. Materials Today Chemistry, 2022, 24, 100886. | 3.5 | 7 |
| 80 | Diffusion-driven formation of Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e256" altimg="si64.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e264" altimg="si65.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:math>Ânanopetals layers for pho | 6.1 | 6 |
| 81 | Bioelectrochemical Characterization of Horseradish and Soybean Peroxidases. Electroanalysis, 2009, 21, 2378-2386. | 2.9 | 5 |
| 82 | Determination of Se(IV) and Se(VI) in Italian Mineral Waters. Annali Di Chimica, 2006, 96, 647-656. | 0.6 | 4 |
| 83 | Surface plasmon resonance biosensors for environmental analysis: general aspects and applications. International Journal of Environment and Health, 2010, 4, 305. | 0.3 | 2 |
| 84 | Aptamer-based and DNAzyme-based biosensors for environmental monitoring. International Journal of Environment and Health, 2011, 5, 186. | 0.3 | 2 |
| 85 | Ion Pair Formation between Tertiary Aliphatic Amines and Perchlorate in the Biphasic Water/Dichloromethane System. Journal of Physical Chemistry B, 2017, 121, 9403-9410. | 2.6 | 1 |
| 86 | RÃ¼cktitelbild: Electron Sharing and Anion-Ï€ Recognition in Molecular Triangular Prisms (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 2.0 | 0 |