

# Giovanni Signore

## List of Publications by Year in descending order

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94  
papers

2,275  
citations

201674

27  
h-index

243625

44  
g-index

101  
all docs

101  
docs citations

101  
times ranked

4124  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Polarity-Sensitive Coumarins Tailored to Live Cell Imaging. <i>Journal of the American Chemical Society</i> , 2010, 132, 1276-1288.   | 13.7 | 232       |
| 2  | In Vitro Cytotoxic Activities of 2-Alkyl-4,6-diheteroalkyl-1,3,5-triazines: A New Molecules in Anticancer Research. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 4649-4652.  | 6.4  | 153       |
| 3  | Recurrent ETNK1 mutations in atypical chronic myeloid leukemia. <i>Blood</i> , 2015, 125, 499-503.  | 1.4  | 115       |
| 4  | In Vivo Recognition of Human Vascular Endothelial Growth Factor by Molecularly Imprinted Polymers. <i>Nano Letters</i> , 2017, 17, 2307-2312.   | 9.1  | 108       |
| 5  | Dual Fluorescence through Kasha's Rule Breaking: An Unconventional Photomechanism for Intracellular Probe Design. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6144-6154.  | 2.6  | 76        |
| 6  | Rational Design of a Transferrin-Binding Peptide Sequence Tailored to Targeted Nanoparticle Internalization. <i>Bioconjugate Chemistry</i> , 2017, 28, 471-480.   | 3.6  | 73        |
| 7  | Aptamer-Mediated Codelivery of Doxorubicin and NF- $\kappa$ B Decoy Enhances Chemosensitivity of Pancreatic Tumor Cells. <i>Molecular Therapy - Nucleic Acids</i> , 2015, 4, e235.  | 5.1  | 67        |
| 8  | Antimicrobial Peptides Design by Evolutionary Multiobjective Optimization. <i>PLoS Computational Biology</i> , 2013, 9, e1003212.   | 3.2  | 65        |
| 9  | Role of extracellular calcium and mitochondrial oxygen species in psychosine-induced oligodendrocyte cell death. <i>Cell Death and Disease</i> , 2014, 5, e1529-e1529.  | 6.3  | 60        |
| 10 | Biodegradable hollow silica nanospheres containing gold nanoparticle arrays. <i>Chemical Communications</i> , 2015, 51, 9939-9941.  | 4.1  | 54        |
| 11 | Cancer phototherapy in living cells by multiphoton release of doxorubicin from gold nanospheres. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4225.   | 5.8  | 46        |
| 12 | Ligand signature in the membrane dynamics of single TrkA receptor molecules. <i>Journal of Cell Science</i> , 2013, 126, 4445-4456.   | 2.0  | 46        |
| 13 | Fast-diffusing p75 <sup>NTR</sup> monomers support apoptosis and growth cone collapse by neurotrophin ligands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21563-21572. | 7.1  | 45        |
| 14 | Brain-targeted enzyme-loaded nanoparticles: A breach through the blood-brain barrier for enzyme replacement therapy in Krabbe disease. <i>Science Advances</i> , 2019, 5, eaax7462.   | 10.3 | 43        |
| 15 | Multiphoton Molecular Photorelease in Click-Chemistry-Functionalized Gold Nanoparticles. <i>Small</i> , 2011, 7, 3271-3275.   | 10.0 | 41        |
| 16 | Biodegradable Passion Fruit-Like Nano-Architectures as Carriers for Cisplatin Prodrug. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 818-824.   | 2.3  | 40        |
| 17 | An Intravascular Magnetic Catheter Enables the Retrieval of Nanoagents from the Bloodstream. <i>Advanced Science</i> , 2018, 5, 1800807.  | 11.2 | 37        |
| 18 | Two Interconvertible Folds Modulate the Activity of a DNA Aptamer Against Transferrin Receptor. <i>Molecular Therapy - Nucleic Acids</i> , 2014, 3, e144.   | 5.1  | 36        |

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|----|---|------|-----------|
| 19 | Cross-Linked Enzyme Aggregates as Versatile Tool for Enzyme Delivery: Application to Polymeric Nanoparticles. <i>Bioconjugate Chemistry</i> , 2018, 29, 2225-2231.  | 3.6  | 34        |
| 20 | Lithium improves cell viability in psychosine-treated MO3.13 human oligodendrocyte cell line via autophagy activation. <i>Journal of Neuroscience Research</i> , 2016, 94, 1246-1260.   | 2.9  | 33        |
| 21 | Dendrimer-Based Fluorescent Indicators: In Vitro and In Vivo Applications. <i>PLoS ONE</i> , 2011, 6, e28450.   | 2.5  | 33        |
| 22 | Characterization of secreted vesicles from vascular smooth muscle cells. <i>Molecular BioSystems</i> , 2014, 10, 1146.  | 2.9  | 32        |
| 23 | Glial-fibrillary-acidic-protein (GFAP) biomarker detection in serum-matrix: Functionalization strategies and detection by an ultra-high-frequency surface-acoustic-wave (UHF-SAW) lab-on-chip.. <i>Biosensors and Bioelectronics</i> , 2021, 172, 112774. | 10.1 | 32        |
| 24 | Imaging intracellular viscosity by a new molecular rotor suitable for phasor analysis of fluorescence lifetime. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6223-6233.   | 3.7  | 31        |
| 25 | Site-Specific Labeling of Neurotrophins and Their Receptors via Short and Versatile Peptide Tags. <i>PLoS ONE</i> , 2014, 9, e113708.   | 2.5  | 31        |
| 26 | A Novel Coumarin Fluorescent Sensor to Probe Polarity Around Biomolecules. <i>Journal of Biomedical Nanotechnology</i> , 2009, 5, 722-729.  | 1.1  | 30        |
| 27 | Peptide-Based Stealth Nanoparticles for Targeted and pH-Triggered Delivery. <i>Bioconjugate Chemistry</i> , 2017, 28, 627-635.  | 3.6  | 29        |
| 28 | Smart Delivery and Controlled Drug Release with Gold Nanoparticles: New Frontiers in Nanomedicine. <i>Recent Patents on Nanomedicine</i> , 2012, 2, 34-44.  | 0.5  | 28        |
| 29 | Orthogonal Functionalisation of Upconverting NaYF <sub>4</sub> Nanocrystals. <i>Chemistry - A European Journal</i> , 2013, 19, 13538-13546.   | 3.3  | 27        |
| 30 | In Vitro Efficient Transfection by CM18-Tat11 Hybrid Peptide: A New Tool for Gene-Delivery Applications. <i>PLoS ONE</i> , 2013, 8, e70108.   | 2.5  | 27        |
| 31 | Nanocarriers for Protein Delivery to the Cytosol: Assessing the Endosomal Escape of Poly(Lactide-co-Glycolide)-Poly(Ethylene Imine) Nanoparticles. <i>Nanomaterials</i> , 2019, 9, 652.   | 4.1  | 25        |
| 32 | Spontaneous membrane-translocating peptides: influence of peptide self-aggregation and cargo polarity. <i>Scientific Reports</i> , 2015, 5, 16914.  | 3.3  | 24        |
| 33 | Proteomic and functional analyses in disease models reveal CLN5 protein involvement in mitochondrial dysfunction. <i>Cell Death Discovery</i> , 2020, 6, 18.  | 4.7  | 23        |
| 34 | Proteomics Profiling of Neuron-Derived Small Extracellular Vesicles from Human Plasma: Enabling Single-Subject Analysis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2951.   | 4.1  | 23        |
| 35 | Organometallic alkylation of 2-chloro-4,6-dimethoxy-1,3,5-triazine: a study. <i>Tetrahedron</i> , 2005, 61, 4475-4483.  | 1.9  | 22        |
| 36 | Cis-trans photoisomerization properties of GFP chromophore analogs. <i>European Biophysics Journal</i> , 2011, 40, 1205-1214.   | 2.2  | 22        |

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|----|--|------|-----------|
| 37 | The landscape of BRAF transcript and protein variants in human cancer. <i>Molecular Cancer</i> , 2017, 16, 85.   | 19.2 | 22        |
| 38 | Precursor and mature NGF live tracking: one versus many at a time in the axons. <i>Scientific Reports</i> , 2016, 6, 20272.  | 3.3  | 21        |
| 39 | Compositional analysis of endogenous porphyrins from <i>Helicobacter pylori</i> . <i>Biophysical Chemistry</i> , 2017, 229, 25-30.   | 2.8  | 20        |
| 40 | A surface-acoustic-wave-based cantilever bio-sensor. <i>Biosensors and Bioelectronics</i> , 2015, 68, 570-576.   | 10.1 | 19        |
| 41 | Imaging the static dielectric constant in vitro and in living cells by a bioconjugable GFP chromophore analog. <i>Chemical Communications</i> , 2013, 49, 1723.                                | 4.1  | 18        |
| 42 | Quantitative optical lock-in detection for quantitative imaging of switchable and non-switchable components. <i>Microscopy Research and Technique</i> , 2016, 79, 929-937.                     | 2.2  | 18        |
| 43 | Organization of inner cellular components as reported by a viscosity-sensitive fluorescent Bodipy probe suitable for phasor approach to FLIM. <i>Biophysical Chemistry</i> , 2016, 208, 17-25. | 2.8  | 18        |
| 44 | Self-aggregation propensity of the Tat peptide revealed by UV-Vis, NMR and MD analyses. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23910-23914.                                    | 2.8  | 17        |
| 45 | First Examples of H <sub>2</sub> S-Releasing Glycoconjugates: Stereoselective Synthesis and Anticancer Activities. <i>Bioconjugate Chemistry</i> , 2019, 30, 614-620.                          | 3.6  | 16        |
| 46 | Uranium-free X solution: a new generation contrast agent for biological samples ultrastructure. <i>Scientific Reports</i> , 2020, 10, 11540.   | 3.3  | 16        |
| 47 | Capturing Metabolism-Dependent Solvent Dynamics in the Lumen of a Trafficking Lysosome. <i>ACS Nano</i> , 2019, 13, 1670-1682.   | 14.6 | 15        |
| 48 | Targeted Dendrimer-Coated Magnetic Nanoparticles for Selective Delivery of Therapeutics in Living Cells. <i>Molecules</i> , 2020, 25, 2252.  | 3.8  | 13        |
| 49 | Characterization of Extracellular Vesicle Cargo in Sjögren's Syndrome through a SWATH-MS Proteomics Approach. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4864.             | 4.1  | 13        |
| 50 | Pyridine and triphenylphosphine oxide activation of sulfonyl chlorides in the syntheses of (E) alk-1-enyl sulfones. <i>Tetrahedron</i> , 2008, 64, 11218-11223.                                | 1.9  | 12        |
| 51 | Surface Acoustic Wave (SAW)-Enhanced Chemical Functionalization of Gold Films. <i>Sensors</i> , 2017, 17, 2452.  | 3.8  | 12        |
| 52 | Poly(Lactide-co-Glycolide) Nanoparticles Co-Loaded with Chlorophyllin and Quantum Dots as Photodynamic Therapy Agents. <i>ChemPlusChem</i> , 2019, 84, 1653-1658.                              | 2.8  | 11        |
| 53 | Alkyl alk-1-enyl alanes in Reissert like reaction. <i>Tetrahedron</i> , 2008, 64, 197-203.   | 1.9  | 10        |
| 54 | Evaluation of in-vitro anti-inflammatory activity of some 2-alkyl-4,6-dimethoxy-1,3,5-triazines. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 58, 219-226.                              | 2.4  | 10        |

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|----|---|-----|-----------|
| 55 | Retrieval of magnetic medical microrobots from the bloodstream. , 2019, , .   |     | 10        |
| 56 | An objective, principal-component-analysis (PCA) based, method which improves the quartz-crystal-microbalance (QCM) sensing performance. <i>Sensors and Actuators A: Physical</i> , 2020, 315, 112323.                | 4.1 | 10        |
| 57 | Fluorolabeling of the PPTase-Related Chemical Tags: Comparative Study of Different Membrane Receptors and Different Fluorophores in the Labeling Reactions. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 195. | 3.5 | 10        |
| 58 | Protein Delivery by Peptide-Based Stealth Liposomes: A Biomolecular Insight into Enzyme Replacement Therapy. <i>Molecular Pharmaceutics</i> , 2020, 17, 4510-4521.  | 4.6 | 10        |
| 59 | A spatial multi-scale fluorescence microscopy toolbox discloses entry checkpoints of SARS-CoV-2 variants in Vero E6 cells. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 6140-6156.           | 4.1 | 10        |
| 60 | Simultaneous Detection of Local Polarizability and Viscosity by a Single Fluorescent Probe in Cells. <i>Biophysical Journal</i> , 2018, 114, 2212-2220.   | 0.5 | 8         |
| 61 | Lysosomal Proteomics Links Disturbances in Lipid Homeostasis and Sphingolipid Metabolism to CLN5 Disease. <i>Cells</i> , 2022, 11, 1840.  | 4.1 | 8         |
| 62 | Alkenyl alaneâ€“pyridine complexes in a new synthesis of Aryl Alk-1-enyl sulfoxides. <i>Tetrahedron</i> , 2007, 63, 177-182.  | 1.9 | 7         |
| 63 | Proteomics pipeline for phosphoenrichment and its application on a human melanoma cell model. <i>Talanta</i> , 2020, 220, 121381.   | 5.5 | 7         |
| 64 | Coumarin-based fluorescent biosensor with large linear range for ratiometric measurement of intracellular pH. <i>Bioorganic Chemistry</i> , 2020, 105, 104372.  | 4.1 | 7         |
| 65 | Smart Delivery and Controlled Drug Release with Gold Nanoparticles: New Frontiers in Nanomedicine. <i>Recent Patents on Nanomedicine</i> , 2012, 2, 34-44.  | 0.5 | 7         |
| 66 | Organization of Inner Cellular Components as Reported by a Viscosity-Sensitive Fluorescent Bodipy Probe Suitable for Phasor Approach to Flim. <i>Biophysical Journal</i> , 2016, 110, 163a.                           | 0.5 | 6         |
| 67 | Lipid-Conjugated Rigidochromic Probe Discloses Membrane Alteration in Model Cells of Krabbe Disease. <i>Biophysical Journal</i> , 2019, 116, 477-486.   | 0.5 | 6         |
| 68 | Polymeric Microporous Nanofilms as Smart Platforms for <i>in Vitro</i> ; Assessment of Nanoparticle Translocation and Caco-2 Cell Culture. <i>IEEE Transactions on Nanobioscience</i> , 2016, 15, 689-696.            | 3.3 | 5         |
| 69 | New Coumarin Dipicolinate Europium Complexes with a Rich Chemical Speciation and Tunable Luminescence. <i>Molecules</i> , 2021, 26, 1265.   | 3.8 | 5         |
| 70 | Salivary Proteomics Markers for Preclinical Sjögrenâ€™s Syndrome: A Pilot Study. <i>Biomolecules</i> , 2022, 12, 738.   | 4.0 | 5         |
| 71 | Nanoimaging: photophysical and pharmaceutical characterization of poly-lactide-co-glycolide nanoparticles engineered with quantum dots. <i>Nanotechnology</i> , 2016, 27, 015704.                                     | 2.6 | 4         |
| 72 | Nano-topography: Quicksand for cell cycle progression?. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2656-2665.   | 3.3 | 4         |

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|----|--|------|-----------|
| 73 | Remarkable Effect of [Li(G4)]TFSI Solvate Ionic Liquid (SIL) on the Regio- and Stereoselective Ring Opening of $\alpha$ -Glucosyl Epoxides. <i>Molecules</i> , 2019, 24, 2946.   | 3.8  | 4         |
| 74 | Drug Delivery: Multiphoton Molecular Photorelease in Click-Chemistry-Functionalized Gold Nanoparticles (Small 23/2011). <i>Small</i> , 2011, 7, 3270-3270.   | 10.0 | 3         |
| 75 | Prevalence and clinical significance of incidental $^{18}\text{F}$ -FDG uptake in the pituitary. <i>Clinical and Translational Imaging</i> , 2020, 8, 237-242.   | 2.1  | 3         |
| 76 | Synthesis, Cellular Delivery and <i>In vivo</i> Application of Dendrimer-based pH Sensors. <i>Journal of Visualized Experiments</i> , 2013, , .  | 0.3  | 2         |
| 77 | Unique Photophysical Behavior of Coumarin-Based Viscosity Probes during Molecular Self-Assembly. <i>ACS Omega</i> , 2019, 4, 4785-4792.  | 3.5  | 2         |
| 78 | Morphological and Elastic Transition of Polystyrene Adsorbed Layers on Silicon Oxide. <i>Journal of Microscopy</i> , 2020, 280, 280-286.   | 1.8  | 2         |
| 79 | Imaging of Static Dielectric Permittivity <i>In Vitro</i> and in Living Cells by a Bioconjugable GFP Chromophore Analog. <i>Biophysical Journal</i> , 2013, 104, 530a.   | 0.5  | 1         |
| 80 | Imaging of Intracellular Viscosity and Membrane Order by New Molecular Rotors Suitable for Phasor Analysis of Fluorescence Lifetime. <i>Biophysical Journal</i> , 2014, 106, 24a.  | 0.5  | 1         |
| 81 | Identification of chemical byproducts in the radiofluorination of structurally complex arylidonium salts. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 303, 1021-1027.  | 1.5  | 1         |
| 82 | Biological Effects of Transforming Growth Factor Beta in Human Cholangiocytes. <i>Biology</i> , 2022, 11, 566.   | 2.8  | 1         |
| 83 | Organometallic Alkylation of 2-Chloro-4,6-dimethoxy-1,3,5-triazine: A Study.. <i>ChemInform</i> , 2005, 36, no.  | 0.0  | 0         |
| 84 | Recognition of Protein Binding Events by Polarity-Sensitive Probes. <i>Biophysical Journal</i> , 2010, 98, 181a.   | 0.5  | 0         |
| 85 | Synergistic photo-release of drugs by non-linear excitation. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1688, 18.  | 0.1  | 0         |
| 86 | Lipid-modified dendrimers as a tool for the design of nanoparticle-based multimodal MRI contrast agents. , 2014, , .   |      | 0         |
| 87 | Biodegradable nano-architectures containing gold nanoparticles arrays. <i>MRS Advances</i> , 2016, 1, 2173-2179.   | 0.9  | 0         |
| 88 | Fluorescence lifetime microscopy reveals the biologically-related photophysical heterogeneity of oxyblepharismine in light-adapted (blue) <i>Blepharisma japonicum</i> cells. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 1502-1511. | 2.9  | 0         |
| 89 | Biomedical Applications: An Intravascular Magnetic Catheter Enables the Retrieval of Nanoagents from the Bloodstream ( <i>Adv. Sci.</i> 9/2018). <i>Advanced Science</i> , 2018, 5, 1870054.   | 11.2 | 0         |
| 90 | Capturing Metabolism-Dependent Solvent Polarity Fluctuations in a Trafficking Lysosome. <i>Biophysical Journal</i> , 2019, 116, 307a.  | 0.5  | 0         |

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|----|---|-----|-----------|
| 91 | Vascular Smooth Muscle Cells activation revealed by quantitative phosphoproteomics analysis. Journal of Integrated OMICS, 2013, 3, .                                  | 0.5 | 0         |
| 92 | Evidence of ETNK1 Somatic Variants in Atypical Chronic Myeloid Leukemia. Blood, 2014, 124, 2212-2212.   | 1.4 | 0         |
| 93 | Abstract 3385: ETNK1 mutations promote ROS production and DNA damage through increased mitochondrial activity. , 2018, , .  |     | 0         |
| 94 | New 1,3-Disubstituted Benzo[h]Isoquinoline Cyclen-Based Ligand Platform: Synthesis, Eu3+ Multiphoton Sensitization and Imaging Applications. Molecules, 2021, 26, 58. | 3.8 | 0         |