

# Giacomo Bergamini

## List of Publications by Year in descending order

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110  
papers

5,027  
citations

136885

32  
h-index

123376

61  
g-index

121  
all docs

121  
docs citations

121  
times ranked

6929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photochemistry and Photophysics of Coordination Compounds: Ruthenium. , 2007, , 117-214.		703
2	Rigidification or interaction-induced phosphorescence of organic molecules. Chemical Communications, 2017, 53, 2081-2093.	2.2	298
3	Ru(II)-bipyridine complexes in supramolecular systems, devices and machines. Coordination Chemistry Reviews, 2006, 250, 1254-1266.	9.5	254
4	Photoinduced reversible switching of porosity in molecular crystals based on star-shaped azobenzene tetramers. Nature Chemistry, 2015, 7, 634-640.	6.6	229
5	Turn-on Phosphorescence by Metal Coordination to a Multivalent Terpyridine Ligand: A New Paradigm for Luminescent Sensors. Journal of the American Chemical Society, 2014, 136, 6395-6400.	6.6	223
6	Photochemistry and Photophysics of Coordination Compounds: Overview and General Concepts. , 2007, , 1-36.		149
7	Old Molecules, New Concepts: [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> as a Molecular Encoder&quot;Decoder. Angewandte Chemie - International Edition, 2009, 48, 8516-8518.	7.2	132
8	Visualizing spatial and temporal heterogeneity of single molecule rotational diffusion in a glassy polymer by defocused wide-field imaging. Polymer, 2006, 47, 2511-2518.	1.8	130
9	Photoswitchable Dendritic Hosts: A Dendrimer with Peripheral Azobenzene Groups. Journal of the American Chemical Society, 2007, 129, 10714-10719.	6.6	128
10	Synthesis of Two-Dimensional Analogues of Copolymers by Site-to-Site Transmetalation of Organometallic Monolayer Sheets. Journal of the American Chemical Society, 2014, 136, 6103-6110.	6.6	128
11	Luminescence as a tool to investigate dendrimer properties. Progress in Polymer Science, 2005, 30, 453-473.	11.8	124
12	A persulfurated benzene molecule exhibits outstanding phosphorescence in rigid environments: from computational study to organic nanocrystals and OLED applications. Journal of Materials Chemistry C, 2013, 1, 2717.	2.7	118
13	From the photochemistry of coordination compounds to light-powered nanoscale devices and machines. Coordination Chemistry Reviews, 2008, 252, 2456-2469.	9.5	109
14	Light: A Very Peculiar Reactant and Product. Angewandte Chemie - International Edition, 2015, 54, 11320-11337.	7.2	106
15	Proton-Driven Self-Assembled Systems Based on Cyclam-Cored Dendrimers and [Ru(bpy)(CN) <sub>4</sub> ] <sup>2-</sup> . Journal of the American Chemical Society, 2004, 126, 16466-16471.	6.6	79
16	Molecular asterisks with a persulfurated benzene core are among the strongest organic phosphorescent emitters in the solid state. Dyes and Pigments, 2014, 110, 113-122.	2.0	76
17	Designing light harvesting antennas by luminescent dendrimers. New Journal of Chemistry, 2011, 35, 1944.	1.4	71
18	Electronic spectroscopy of metal complexes with dendritic ligands. Coordination Chemistry Reviews, 2007, 251, 525-535.	9.5	70

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19	Heteroleptic Cu(I) complexes containing phenanthroline-type and 1,1'-bis(diphenylphosphino)ferrocene ligands: Structure and electronic properties. <i>Inorganica Chimica Acta</i> , 2007, 360, 1032-1042.	1.2	67
20	Photoredox Catalysis: The Need to Elucidate the Photochemical Mechanism. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12820-12821.	7.2	66
21	Polysulfurated Pyrene-Cored Dendrimers: Luminescent and Electrochromic Properties. <i>Chemistry - A European Journal</i> , 2008, 14, 10357-10363.	1.7	65
22	Easy Separation of $\lambda$ and $\delta$ Isomers of Highly Luminescent [Ir <sup>III</sup> ]-Cyclometalated Complexes Based on Chiral Phenol-Oxazoline Ancillary Ligands. <i>Chemistry - A European Journal</i> , 2012, 18, 8765-8773.	1.7	61
23	Photoswitchable Metal Coordinating Tweezers Operated by Light-Harvesting Dendrimers. <i>Journal of the American Chemical Society</i> , 2012, 134, 15277-15280.	6.6	59
24	Tailoring Colors by O Annulation of Polycyclic Aromatic Hydrocarbons. <i>Chemistry - A European Journal</i> , 2017, 23, 2363-2378.	1.7	55
25	Cp <sub>2</sub> TiCl <sub>2</sub> -Catalyzed Photoredox Allylation of Aldehydes with Visible Light. <i>ACS Catalysis</i> , 2020, 10, 3857-3863.	5.5	55
26	Silicon Nanocrystals Functionalized with Pyrene Units: Efficient Light-Harvesting Antennae with Bright Near-Infrared Emission. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3325-3329.	2.1	54
27	A multichromophoric dendrimer: from synthesis to energy up-conversion in a rigid matrix. <i>Chemical Communications</i> , 2011, 47, 12780.	2.2	50
28	Hematite nanostructures: An old material for a new story. Simultaneous photoelectrochemical oxidation of benzylamine and hydrogen production through Ti doping. <i>Nano Energy</i> , 2019, 61, 36-46.	8.2	46
29	Forward (singlet-singlet) and backward (triplet-triplet) energy transfer in a dendrimer with peripheral naphthalene units and a benzophenone core. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 898-905.	1.6	41
30	Evaluation of phototoxicity of dendritic porphyrin-based phosphorescent oxygen probes: an in vitro study. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1056-1065.	1.6	37
31	Shining Light on Ti <sup>IV</sup> Complexes: Exceptional Tools for Metallaphotoredox Catalysis. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6955-6965.	1.2	37
32	Dendrimers based on a bis-cyclam core as fluorescence sensors for metal ions. <i>Journal of Materials Chemistry</i> , 2005, 15, 2959.	6.7	36
33	Photosynthetic H <sub>2</sub> generation and organic transformations with CdSe@CdS-Pt nanorods for highly efficient solar-to-chemical energy conversion. <i>Nano Energy</i> , 2020, 70, 104510.	8.2	34
34	Metal ion complexes of cyclam-cored dendrimers for molecular photonics. <i>Coordination Chemistry Reviews</i> , 2011, 255, 2458-2468.	9.5	33
35	Photochemistry and photocatalysis. <i>Rendiconti Lincei</i> , 2017, 28, 125-142.	1.0	33
36	Bispindines for Dual Imaging. <i>Chemistry - A European Journal</i> , 2014, 20, 17011-17018.	1.7	31

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37	Molecular Size and Electronic Structure Combined Effects on the Electrogenerated Chemiluminescence of Sulfurated Pyrene-Cored Dendrimers. <i>Chemistry - A European Journal</i> , 2015, 21, 2936-2947.	1.7	31
38	Poly(3-hexylthiophene) Nanoparticles Containing Thiophene-S <sub>2</sub> -dioxide: Tuning of Dimensions, Optical and Redox Properties, and Charge Separation under Illumination. <i>ACS Nano</i> , 2017, 11, 1991-1999.	7.3	31
39	A fluorescent guest encapsulated by a photoreactive azobenzene dendrimer. <i>New Journal of Chemistry</i> , 2008, 32, 401.	1.4	28
40	Synthesis of small gold nanoparticles: Au(i) disproportionation catalyzed by a persulfurated coronene dendrimer. <i>Chemical Communications</i> , 2007, , 4167.	2.2	27
41	Conductive PEDOT Covalently Bound to Transparent FTO Electrodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16782-16790.	1.5	27
42	Light-harvesting antennae based on photoactive silicon nanocrystals functionalized with porphyrin chromophores. <i>Faraday Discussions</i> , 2015, 185, 481-495.	1.6	27
43	Diastereoselective and enantioselective photoredox pinacol coupling promoted by titanium complexes with a red-absorbing organic dye. <i>Chemical Science</i> , 2022, 13, 5973-5981.	3.7	26
44	A Cyclam Core Dendrimer Containing Dansyl and Oligoethylene Glycol Chains in the Branches: Protonation and Metal Coordination. <i>Chemistry - A European Journal</i> , 2006, 12, 8926-8934.	1.7	25
45	Photoinduced Processes between Pyrene-Functionalized Silicon Nanocrystals and Carbon Allotropes. <i>Chemistry of Materials</i> , 2015, 27, 4390-4397.	3.2	25
46	Bright Long-Lived Luminescence of Silicon Nanocrystals Sensitized by Two-Photon Absorbing Antenna. <i>CheM</i> , 2017, 2, 550-560.	5.8	25
47	Azobenzene: A Photoactive Building Block for Supramolecular Architectures. <i>Chemical Record</i> , 2017, 17, 700-712.	2.9	24
48	Amide-Functionalized Bis(NHC) Systems: Anion Effect on Gold-Gold Interactions. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3892-3898.	1.0	23
49	Photoredox Catalysis: The Need to Elucidate the Photochemical Mechanism. <i>Angewandte Chemie</i> , 2017, 129, 12996-12997.	1.6	23
50	A turn-on phosphorescent sensor of Pb <sup>2+</sup> in water by the formation of a coordination polymer. <i>Dalton Transactions</i> , 2019, 48, 3815-3818.	1.6	23
51	Benzothiazolium-functionalized NU-1000: a versatile material for carbon dioxide adsorption and cyanide luminescence sensing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7492-7500.	2.7	22
52	A Strongly Emitting Liquid-Crystalline Derivative of Y <sub>3</sub> N@C <sub>80</sub> : Bright and Long-Lived Near-IR Luminescence from a Charge Transfer State. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12303-12307.	7.2	21
53	Polymorphism in Crystalline Microfibers of Achiral Octithiophene: The Effect on Charge Transport, Supramolecular Chirality and Optical Properties. <i>Advanced Functional Materials</i> , 2014, 24, 4943-4951.	7.8	21
54	Photoinduced Electron-Transfer Quenching of Luminescent Silicon Nanocrystals as a Way To Estimate the Position of the Conduction and Valence Bands by Marcus Theory. <i>Chemistry of Materials</i> , 2016, 28, 6664-6671.	3.2	21

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55	Controlling the Functional Properties of Oligothiophene Crystalline Nano/Microfibers via Tailoring of the Self-Assembling Molecular Precursors. <i>Advanced Functional Materials</i> , 2018, 28, 1801946.	7.8	21
56	Mechanisms for Fluorescence Depolarization in Dendrimers. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6620-6627.	1.2	20
57	Photoactive Dendrimer for Water Photoreduction: A Scaffold to Combine Sensitizers and Catalysts. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 798-803.	2.1	20
58	Dendrimers as Nd <sup>3+</sup> ligands: Effect of Generation on the Efficiency of the Sensitized Lanthanide Emission. <i>Chemistry - an Asian Journal</i> , 2013, 8, 771-777.	1.7	18
59	Photoredox Propargylation of Aldehydes Catalytic in Titanium. <i>Journal of Organic Chemistry</i> , 2021, 86, 7002-7009.	1.7	18
60	Ru <sup>2+</sup> complexes comprising terpyridine ligands appended with terthiophene chromophores: energy transfer and energy reservoir effect. <i>Chemical Communications</i> , 2011, 47, 3413.	2.2	17
61	Divergent Terpyridine-Based Coordination for the Construction of Photoactive Supramolecular Structures. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 577-584.	1.0	17
62	Designing Systems for a Multiple Use of Light Signals. <i>ChemPhysChem</i> , 2004, 5, 315-320.	1.0	16
63	Adducts between Dansylated Poly(propylene amine) Dendrimers and Anthracene Clips Mediated by Zn <sup>II</sup> Ions: Highly Efficient Photoinduced Energy Transfer. <i>Chemistry - A European Journal</i> , 2009, 15, 7876-7882.	1.7	16
64	One- and two-photon absorption properties of quadrupolar thiophene-based dyes with acceptors of varying strengths. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2180-2190.	1.6	16
65	Cyclam cored luminescent dendrimers as ligands for Co(II), Ni(II) and Cu(II) ions. <i>Inorganica Chimica Acta</i> , 2007, 360, 1043-1051.	1.2	15
66	Synthesis, Characterization, and Metal Ion Coordination of a Multichromophoric Highly Luminescent Polysulfurated Pyrene. <i>Chemistry - A European Journal</i> , 2014, 20, 10661-10668.	1.7	15
67	Photoredox Allylation Reactions Mediated by Bismuth in Aqueous Conditions. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 1624-1627.	1.2	15
68	First generation TREN dendrimers functionalized with naphthyl and/or dansyl units. Ground and excited state electronic interactions and protonation effects. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 471-479.	1.6	14
69	Synthesis, Stability and Sensitized Lanthanide Luminescence of Heterobimetallic d/f Terpyridine Complexes. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 414-420.	1.0	14
70	Hierarchical Growth of Supramolecular Structures Driven by Pimerization of Tetrahedrally Arranged Bipyridinium Units. <i>Chemistry - A European Journal</i> , 2017, 23, 6380-6390.	1.7	14
71	Laser-Inscribed Glass Microfluidic Device for Non-Mixing Flow of Miscible Solvents. <i>Micromachines</i> , 2019, 10, 23.	1.4	14
72	Metal ion driven formation of a light-harvesting antenna investigated by sensitized luminescence and fluorescence anisotropy. <i>Chemical Communications</i> , 2010, 46, 3571.	2.2	12

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73	A Highly Luminescent Tetramer from a Weakly Emitting Monomer: Acid- and Redox-Controlled Multiple Complexation by Cucurbit[7]uril. <i>Chemistry - A European Journal</i> , 2014, 20, 7054-7060.	1.7	12
74	Uniform Functionalization of High-Quality Graphene with Platinum Nanoparticles for Electrocatalytic Water Reduction. <i>ChemistryOpen</i> , 2015, 4, 268-273.	0.9	12
75	Light-Harvesting Antennae Based on Silicon Nanocrystals. <i>Topics in Current Chemistry</i> , 2016, 374, 53.	3.0	12
76	Self-assembly of nanocrystalline tetra-terpyridine complexes: from molecules to mesoscopic objects. <i>Soft Matter</i> , 2013, 9, 10754.	1.2	11
77	Luminescent multi-terpyridine ligands: towards 2D polymer formation in solution. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 997-1004.	1.6	11
78	A tailored RAFT copolymer for the dispersion of single walled carbon nanotubes in aqueous media. <i>Polymer Chemistry</i> , 2014, 5, 6148-6150.	1.9	11
79	A Photophysical Study of Terphenyl Core Oligosulfonimide Dendrimers Exhibiting High Steady-State Anisotropy. <i>ChemPhysChem</i> , 2006, 7, 1980-1984.	1.0	10
80	Luminescent Dendrimers as Ligands and Sensors of Metal Ions. <i>Springer Series on Fluorescence</i> , 2010, , 253-284.	0.8	10
81	Photochemistry and photophysics of metal complexes with dendritic ligands. <i>Advances in Inorganic Chemistry</i> , 2011, , 105-135.	0.4	10
82	Terthiophene Appended with Terpyridine Units as Receptors for Protons and Zn <sup>2+</sup> Ions: Photoinduced Energy and Electron Transfer Processes. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 4590-4595.	1.0	9
83	Self-Assembly and Exfoliation of a Molecular Solid Based on Cooperative H <sub>2</sub> O and Hydrogen Bonds. <i>Crystal Growth and Design</i> , 2018, 18, 7259-7263.	1.4	9
84	Towards Solar Factories: Prospects of Solar-to-Chemical Energy Conversion using Colloidal Semiconductor Photosynthetic Systems. <i>ChemSusChem</i> , 2020, 13, 4894-4899.	3.6	9
85	Cyclam-Cored Dendrimers Appended with Four Dendrons of Two Different Types: Intradendrimer Energy Transfer. <i>Chemistry - an Asian Journal</i> , 2010, 5, 1884-1895.	1.7	8
86	A molecular clip throws new light on the complexes formed by a family of cyclam-cored dendrimers with Zn(II) ions. Efficient energy transfer in the heteroleptic complexes. <i>Dalton Transactions</i> , 2011, 40, 1356-1364.	1.6	8
87	Photocontrolled self-assembly of azobenzene nanocontainers in water: light-triggered uptake and release of lipophilic molecules. <i>Chemical Communications</i> , 2019, 55, 11860-11863.	2.2	8
88	Zirconium Metal-Organic Frameworks Containing a Biselenophene Linker: Synthesis, Characterization, and Luminescent Properties. <i>Inorganic Chemistry</i> , 2020, 59, 15832-15841.	1.9	8
89	Azacrown Ethers with Naphthyl Branches. Fluorescence Properties, Protonation and Metal Coordination. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2008, 18, 189-194.	1.9	7
90	Blue and highly emitting [Ir(IV)] complexes by an efficient photoreaction of yellow luminescent [Ir(III)] complexes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4461.	2.7	7

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91	Photophysical Characterization and Recognition Behaviour of a Bis(dansylated) Polyoxometalate. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 3405-3410.	1.0	7
92	Azobenzene-bridged calix[8]arenes. <i>Tetrahedron Letters</i> , 2006, 47, 7809-7813.	0.7	5
93	Dendrimers with a Pentaphenylene Core: A Photophysical Study. <i>ChemPhysChem</i> , 2009, 10, 265-269.	1.0	5
94	Heteroleptic Ru(II)-terpyridine complex and its metal-containing conducting polymer: Synthesis and characterization. <i>Synthetic Metals</i> , 2015, 200, 109-116.	2.1	5
95	Nanorod Photocatalysts for C <sup>+</sup> O Cross-Coupling Reactions. <i>ChemCatChem</i> , 2022, 14, .	1.8	5
96	Diazapyrenium cored dendrimers: electron poor guests for a molecular cliphost. <i>New Journal of Chemistry</i> , 2012, 36, 354-359.	1.4	4
97	Synthesis and Electronic Properties of 1,2-Hemisquarimines and Their Encapsulation in a Cucurbit[7]uril Host. <i>Chemistry - A European Journal</i> , 2014, 20, 6412-6420.	1.7	4
98	New biocompatible polymeric micelles designed for efficient intracellular uptake and delivery. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8963-8972.	2.9	4
99	Giant Shape-persistent Tetrahedral Porphyrin System: Light-induced Charge Separation. <i>Chemistry - A European Journal</i> , 2021, 27, 16250-16259.	1.7	4
100	Lanthanide Terpyridine-Based Assemblies: Towards Dual Luminescent Probes. <i>Asian Journal of Organic Chemistry</i> , 2015, 4, 251-255.	1.3	3
101	Nanostructuring Iridium Complexes into Crystalline Phosphorescent Nanoparticles: Structural Characterization, Photophysics, and Biological Applications. <i>ACS Applied Bio Materials</i> , 2019, 2, 4594-4603.	2.3	3
102	Highly Emissive Water-Soluble Polysulfurated Pyrene-Based Chromophores as Dual Mode Sensors of Metal Ions. <i>ChemPlusChem</i> , 2020, 85, 1481-1486.	1.3	3
103	Light-powered Molecular Devices and Machines. , 2009, , 131-158.		3
104	Metal complexes and nanoparticles for energy upconversion. <i>Dalton Transactions</i> , 2018, 47, 8507-8508.	1.6	2
105	A Pentaporphyrin as a Switching Device Activated by Proton and Redox Stimuli. <i>ChemPhysChem</i> , 2005, 6, 2120-2128.	1.0	1
106	Luminescent Dendrimers. , 2012, , 155-175.		1
107	Dendronised diazapyrenium derivatives: host-guest complexes in aqueous solution. <i>New Journal of Chemistry</i> , 2018, 42, 16193-16199.	1.4	1
108	Laser Inscription of Microfluidic Devices in the Bulk of Fused Silica. , 2019, , .		0

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109	Towards Solar Factories: Highly Efficient Photocatalytic H <sub>2</sub> Generation and Organic Transformations. , 0, , .		0
110	Towards Solar Factories: Photosynthetic H <sub>2</sub> Generation and Organic Transformations for Highly Efficient Solar-to-Chemical Energy Conversion. , 0, , .		0