# Michel Frigoli

List of Publications by Year
in descending order



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|---|---|---|---|
| 65 papers | 2,077 citations | 186265 28 h-index | 243625 44 g-index |
| 66 all docs | 66 docs citations | 66 times ranked | 2210 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Lowâ€Powerâ€Photon Upâ€Conversion in Dualâ€Dyeâ€Loaded Polymer Nanoparticles. Advanced Functional Materials, 2012, 22, 139-143. | 14.9 | 153 |
| 2 | Naphthalimide based methacrylated photoinitiators in radical and cationic photopolymerization under visible light. Polymer Chemistry, 2013, 4, 5440. | 3.9 | 120 |
| 3 | Design of Novel Photoinitiators for Radical and Cationic Photopolymerizations under Near UV and Visible LEDs (385, 395, and 405 nm).. Macromolecules, 2014, 47, 2811-2819. | 4.8 | 98 |
| 4 | Julolidine or Fluorenone Based Pushâ€“Pull Dyes for Polymerization upon Soft Polychromatic Visible Light or Green Light.. Macromolecules, 2014, 47, 106-112. | 4.8 | 91 |
| 5 | A Cascade FRETâ€Mediated Ratiometric Sensor for Cu<sup>2+</sup>Ions Based on Dual Fluorescent Ligandâ€Coated Polymer Nanoparticles. Chemistry - A European Journal, 2009, 15, 8319-8330. | 3.3 | 76 |
| 6 | Modulation of the Absorption, Fluorescence, and Liquid-Crystal Properties of Functionalised Diarylethene Derivatives. Chemistry - A European Journal, 2004, 10, 5243-5250. | 3.3 | 70 |
| 7 | New Chelating Stilbazonium-Like Dyes from Michler's Ketone. Organic Letters, 2008, 10, 321-324. | 4.6 | 70 |
| 8 | Multiple Addressing in a Hybrid Biphotochromic System. Angewandte Chemie - International Edition, 2005, 44, 5048-5052. | 13.8 | 69 |
| 9 | Perylene derivatives as photoinitiators in blue light sensitive cationic or radical curable films and panchromatic thiol-ene polymerizable films. European Polymer Journal, 2014, 53, 215-222. | 5.4 | 62 |
| 10 | Light-Driven Directed Motion of Azobenzene-Coated Polymer Nanoparticles in an Aqueous Medium. Langmuir, 2011, 27, 7967-7971. | 3.5 | 61 |
| 11 | Photoswitching of bis-spiropyran using near-infrared excited upconverting nanoparticles. Chemical Communications, 2012, 48, 7244. | 4.1 | 55 |
| 12 | Iodine sequestration by thiol-modified MIL-53(Al). CrystEngComm, 2016, 18, 8108-8114. | 2.6 | 54 |
| 13 | Design of Mesomorphic Diarylethene-Based Photochromes. Journal of the American Chemical Society, 2004, 126, 15382-15383. | 13.7 | 50 |
| 14 | Diindeno[1,2-b:2â€²,1â€²-n]perylene: a closed shell related Chichibabin's hydrocarbon, the synthesis, molecular packing, electronic and charge transport properties. Chemical Science, 2015, 6, 3402-3409. | 7.4 | 49 |
| 15 | Photomodulable Materials. Synthesis and Properties of Photochromic 3H-Naphtho[2,1-b]pyrans Linked to Thiophene Unitsvia an Acetylenic Junction. Helvetica Chimica Acta, 2000, 83, 3043-3052. | 1.6 | 45 |
| 16 | New hybrid MOF/polymer composites for the photodegradation of organic dyes. European Polymer Journal, 2021, 154, 110560. | 5.4 | 43 |
| 17 | Excellent Semiconductors Based on Tetracenotetracene and Pentacenopentacene: From Stable Closed-Shell to Singlet Open-Shell. Journal of the American Chemical Society, 2019, 141, 9373-9381. | 13.7 | 40 |
| 18 | Synthesis of New Thiophene-Substituted 3,3-Diphenyl-3H-naphtho[2,1-b]pyrans by Cross-Coupling Reactions, Precursors of Photomodulated Materials. European Journal of Organic Chemistry, 2003, 2003, 2799-2812. | 2.4 | 38 |

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|---|---|---|---|
| 19 | Unraveling Triplet Excitons Photophysics in Hyper-Cross-Linked Polymeric Nanoparticles: Toward the Next Generation of Solid-State Upconverting Materials. Journal of Physical Chemistry Letters, 2016, 7, 2779-2785. | 4.6 | 38 |
| 20 | Effect of oligothiophene substituents on the photophysical and photochromic properties of a naphthopyran. Photochemical and Photobiological Sciences, 2004, 3, 878. | 2.9 | 37 |
| 21 | Synthesis, Structure, and Crystallization Study of a Layered Lithium Thiophene-Dicarboxylate. Crystal Growth and Design, 2012, 12, 1531-1537. | 3.0 | 37 |
| 22 | Electrochemical, Linear Optical, and Nonlinear Optical Properties and Interpretation by Density Functional Theory Calculations of (4-N,N-Dimethylaminostyryl)-Pyridinium Pendant Group Associated with Polypyridinic Ligands and Respective Multifunctional Metal Complexes (Ru<sup>II</sup> or Zn<sup>II</sup>). Inorganic Chemistry, 2009, 48, 8120-8133. | 4.0 | 36 |
| 23 | Bridging the Visible: The Modulation of the Absorption by More than 450 nm. Organic Letters, 2010, 12, 4090-4093. | 4.6 | 32 |
| 24 | A Photochromic Liquid Crystal System. ChemPhysChem, 2003, 4, 101-103. | 2.1 | 30 |
| 25 | The Control of Photochromism of [3H]-Naphthopyran Derivatives with Intramolecular CHâ‹¯Ï€ Bonds. Organic Letters, 2012, 14, 4150-4153. | 4.6 | 30 |
| 26 | A helical naphthopyran dopant for photoresponsive cholesteric liquid crystals. Chemical Communications, 2017, 53, 200-203. | 4.1 | 30 |
| 27 | A lithiumâ€“organic framework with coordinatively unsaturated metal sites that reversibly binds water. Chemical Communications, 2012, 48, 10639. | 4.1 | 29 |
| 28 | Light-triggered molecular devices based on photochromic oligothiophene substituted chromenes. Applied Physics Letters, 2002, 80, 4297-4299. | 3.3 | 28 |
| 29 | Low Bandgap Bistetraceneâ€Based Organic Semiconductors Exhibiting Air Stability, High Aromaticity and Mobility. Chemistry - A European Journal, 2017, 23, 5076-5080. | 3.3 | 28 |
| 30 | Pâ€Type Photochromism of New Helical Naphthopyrans: Synthesis and Photochemical, Photophysical and Theoretical Study. ChemPhysChem, 2015, 16, 2447-2458. | 2.1 | 27 |
| 31 | Continuous irradiation and flash-photolysis studies of new[3H]naphtho[2,1-b]pyrans linked by covalent bonds to oligothiophene units. Effect of thiophene substituents on the photochromism. Photochemical and Photobiological Sciences, 2003, 2, 888. | 2.9 | 26 |
| 32 | The enhancement of photoswitching in a diarylethene derivative by the incorporation of cyanobiphenyl groups. Chemical Communications, 2004, , 818. | 4.1 | 26 |
| 33 | Controlled Conversion of Isomers in a Hybrid Biphotochromic System. Organic Letters, 2006, 8, 4931-4934. | 4.6 | 26 |
| 34 | Synthesis, Aromaticity, and Application of periâ€Pentacenopentacene: Localized Representation of Benzenoid Aromatic Compounds. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 26 |
| 35 | Room Temperature Nematic Photoswitchable Liquid Crystalsâ€” Molecular Modularisation of Functional Elements. European Journal of Organic Chemistry, 2004, 2004, 636-642. | 2.4 | 25 |
| 36 | Modulating the ground state, stability and charge transport in OFETs of biradicaloid hexahydro-diindenopyrene derivatives and a proposed method to estimate the biradical character. Chemical Science, 2020, 11, 12194-12205. | 7.4 | 25 |

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|---|---|---|---|
| 37 | Tetraceno[2,1,12,11-opqra]tetracene-extended tetrathiafulvalene â€“ redox-controlled generation of a large PAH core. Organic and Biomolecular Chemistry, 2017, 15, 807-811. | 2.8 | 24 |
| 38 | Molecular switch devices realised by photochromic oligothiophenes. Synthetic Metals, 2001, 124, 23-27. | 3.9 | 22 |
| 39 | A versatile preparation of azobenzeneâ€dye functionalized colored polymer nanoparticles by surface modification. Journal of Polymer Science Part A, 2008, 46, 3375-3386. | 2.3 | 22 |
| 40 | Spectroscopic properties of thiophene linked [2H]-chromenes. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 139, 1-4. | 3.9 | 21 |
| 41 | Photochromism of 8-thienyl-naphthopyrans investigated by NMR spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 181, 174-179. | 3.9 | 21 |
| 42 | Room temperature photochromic liquid crystal [3H]-naphtho[2,1-b]pyransâ€"photochromism in the mesomorphic state. Chemical Communications, 2004, , 2040-2041. | 4.1 | 18 |
| 43 | Mechanistic understanding of the photochromism of a hybrid dithienyletheneâ€“naphthopyran system by NMR spectroscopy. Journal of Physical Organic Chemistry, 2007, 20, 929-935. | 1.9 | 17 |
| 44 | Unexpected Halogen Substituent Effects on the Complex Thermal Relaxation of Naphthopyrans after UV Irradiation. Journal of Organic Chemistry, 2005, 70, 5302-5304. | 3.2 | 16 |
| 45 | Heterobimetallic Sodiumâ€“Lithium Based Metalâ€“Organic Framework Showing the Î²â€Cristobalite Topology and Having High Permanent Porosity. European Journal of Inorganic Chemistry, 2013, 2013, 1138-1141. | 2.0 | 16 |
| 46 | Chiral separation of helical chromenes with chloromethyl phenylcarbamate polysaccharideâ€based stationary phases. Journal of Separation Science, 2018, 41, 1266-1273. | 2.5 | 15 |
| 47 | Novel Fluorophores based on Regioselective Intramolecular Friedelâ€“Crafts Acylation of the Pyrene Ring Using Triflic Acid. Chemistry - A European Journal, 2017, 23, 16184-16188. | 3.3 | 12 |
| 48 | Synthesis and Properties of Benzoâ€Fused Indeno[2,1â€c]fluorenes. Chemistry - an Asian Journal, 2019, 14, 1737-1744. | 3.3 | 12 |
| 49 | Laser dye doped nanoparticles for highly photostable optical nanoamplifiers. RSC Advances, 2012, 2, 11731. | 3.6 | 11 |
| 50 | A novel cobalt metal-organic framework with an anionic 3D network built up from two interconnected NbO subnets. Microporous and Mesoporous Materials, 2012, 157, 37-41. | 4.4 | 11 |
| 51 | Photochromic oligothiophene substituted chromenes a new approach towards a molecular switch: electrical characterisation. EPJ Applied Physics, 2002, 18, 3-8. | 0.7 | 9 |
| 52 | Synthesis, Aromaticity, and Application of periâ€Pentacenopentacene: Localized Representation of Benzenoid Aromatic Compounds. Angewandte Chemie, 2022, 134, . | 2.0 | 7 |
| 53 | Molecular photo switch based on photochromic oligothiophenes. Synthetic Metals, 2001, 121, 1463-1464. | 3.9 | 6 |
| 54 | Transient Absorption Investigation of the Photophysical Properties of Thiophene Linked [2H]-Chromenes. Molecular Crystals and Liquid Crystals, 2005, 431, 363-368. | 0.9 | 6 |

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|---|---|---|---|
| 55 | NMR and kinetic investigations of the multistep photochromism of 3-thienyl-naphthopyrans. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 183, 70-78. | 3.9 | 5 |
| 56 | Serendipitous Rediscovery of the Facile Cyclization of Z , Z â€3,5â€Octadieneâ€1,7â€diyne Derivatives to Afford Stable, Substituted Naphthocyclobutadienes. ChemPlusChem, 2019, 84, 665-672. | 2.8 | 5 |
| 57 | Synthesis and Photochromic Properties of Thiophene Linked [2H]-Chromenes. Molecular Crystals and Liquid Crystals, 2000, 344, 139-144. | 0.3 | 4 |
| 58 | Improved thermal stability in photochromism-based optically controllable organic thin film transistor. Organic Electronics, 2014, 15, 1891-1895. | 2.6 | 4 |
| 59 | Synthesis and photochromic behaviour of a series of benzopyrans bearing an N-phenyl-carbazole moiety: photochromism control by the steric effect. Photochemical and Photobiological Sciences, 2020, 19, 1344-1355. | 2.9 | 4 |
| 60 | Linking the Inner Isophtalate Guests Within Hexadeca-Oxothiomolybdenum Cyclic Arrangements. Synthesis, Structures and Stability in Solution. Journal of Cluster Science, 2014, 25, 811-823. | 3.3 | 3 |
| 61 | The Investigation of a Functionalised Photochromic Mesogen. Molecular Crystals and Liquid Crystals, 2005, 430, 123-126. | 0.9 | 1 |
| 62 | Synthesis, crystal structure, tropicity and charge transport properties of diindenothienothiophene derivatives. Journal of Materials Chemistry C, 0, , . | 5.5 | 1 |
| 63 | A photochromic liquid crystal system. , 2004, , . | | 0 |
| 64 | 3,3,4,4,5,5-Hexafluoro-1,2-bis[5-(2-fluoro-4â€²-undecyloxybiphenyl-4-yl)-2-methyl-3-thienyl]cyclopentene. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o962-o962. | 0.2 | 0 |
| 65 | 1H and 13C NMR chemical shifts of some thienylâ€substituted chromenes. Magnetic Resonance in Chemistry, 1998, 36, 548-550. | 1.9 | 0 |