# Jiri Mosinger

List of Publications by Year
in descending order



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|---|---|---|---|
| 69 papers | 2,658 citations | 159358 30 h-index | 182168 51 g-index |
| 70 all docs | 70 docs citations | 70 times ranked | 3149 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Photophysical properties of porphyrinoid sensitizers non-covalently bound to host molecules; models for photodynamic therapy. Coordination Chemistry Reviews, 2004, 248, 321-350. | 9.5 | 405 |
| 2 | Photophysical properties of metal complexes of meso-tetrakis(4-sulphonatophenyl)porphyrin. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 96, 93-97. | 2.0 | 142 |
| 3 | A Highly Luminescent Hexanuclear Molybdenum Cluster â€“ A Promising Candidate toward Photoactive Materials. European Journal of Inorganic Chemistry, 2012, 2012, 3107-3111. | 1.0 | 123 |
| 4 | The application of antimicrobial photodynamic therapy on S. aureus and E. coli using porphyrin photosensitizers bound to cyclodextrin. Microbiological Research, 2014, 169, 163-170. | 2.5 | 101 |
| 5 | Bactericidal nanofabrics based on photoproduction of singlet oxygen. Journal of Materials Chemistry, 2007, 17, 164-166. | 6.7 | 77 |
| 6 | CYCLODEXTRINS IN ANALYTICAL CHEMISTRY. Analytical Letters, 2001, 34, 1979-2004. | 1.0 | 76 |
| 7 | Supramolecular sensitizer: complexation of meso-tetrakis(4-sulfonatophenyl)porphyrin with 2-hydroxypropyl-cyclodextrins. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 130, 13-20. | 2.0 | 75 |
| 8 | Quantum yields of singlet oxygen of metal complexes of meso-tetrakis(sulphonatophenyl) porphine. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 107, 77-82. | 2.0 | 74 |
| 9 | Photodynamic sensitizers assay: rapid and sensitive iodometric measurement. Experientia, 1995, 51, 106-109. | 1.2 | 64 |
| 10 | Polystyrene Nanofiber Materials Modified with an Externally Bound Porphyrin Photosensitizer. ACS Applied Materials & Interfaces, 2013, 5, 3776-3783. | 4.0 | 64 |
| 11 | Photofunctional Polyurethane Nanofabrics Doped by Zinc Tetraphenylporphyrin and Zinc Phthalocyanine Photosensitizers. Journal of Fluorescence, 2009, 19, 705-713. | 1.3 | 62 |
| 12 | Superhydrophilic Polystyrene Nanofiber Materials Generating O<sub>2</sub>(<sup>1</sup>Î”<sub>g</sub>): Postprocessing Surface Modifications toward Efficient Antibacterial Effect. ACS Applied Materials & Interfaces, 2014, 6, 13007-13014. | 4.0 | 62 |
| 13 | Fluorescent Polyurethane Nanofabrics: A Source of Singlet Oxygen and Oxygen Sensing. Langmuir, 2010, 26, 10050-10056. | 1.6 | 61 |
| 14 | Lightâ€activated nanofibre textiles exert antibacterial effects in the setting of chronic wound healing. Experimental Dermatology, 2012, 21, 619-624. | 1.4 | 60 |
| 15 | Porphyrins Intercalated in Zn/Al and Mg/Al Layered Double Hydroxides: Properties and Structural Arrangement. Chemistry of Materials, 2010, 22, 2481-2490. | 3.2 | 59 |
| 16 | Layered Double Hydroxides with Intercalated Porphyrins as Photofunctional Materials:Â Subtle Structural Changes Modify Singlet Oxygen Production. Chemistry of Materials, 2007, 19, 3822-3829. | 3.2 | 58 |
| 17 | Photophysical Properties and Photoinduced Electron Transfer Within Hostâ€“Guest Complexes of 5,10,15,20-Tetrakis(4-N-methylpyridyl)porphyrin with Water-soluble Calixarenes and CyclodextrinsÂ¶. Photochemistry and Photobiology, 2001, 74, 558. | 1.3 | 50 |
| 18 | Light-induced aggregation of cationic porphyrins. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 181, 283-289. | 2.0 | 50 |

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|---|---|---|---|
| 19 | Antibacterial nanofiber materials activated by light. Journal of Biomedical Materials Research - Part A, 2011, 99A, 676-683. | 2.1 | 50 |
| 20 | Porphyrin-layered double hydroxide/polymer composites as novel ecological photoactive surfaces. Journal of Materials Chemistry, 2010, 20, 9423. | 6.7 | 46 |
| 21 | Photochemical consequences of porphyrin and phthalocyanine aggregation on nucleoprotein histone. Journal of Photochemistry and Photobiology A: Chemistry, 1998, 119, 47-52. | 2.0 | 45 |
| 22 | Polystyrene Nanofiber Materials for Visible-Light-Driven Dual Antibacterial Action via Simultaneous Photogeneration of NO and O<sub>2</sub>(<sup>1</sup>Î”<sub>g</sub>). ACS Applied Materials & Interfaces, 2015, 7, 22980-22989. | 4.0 | 41 |
| 23 | Application of photoactive electrospun nanofiber materials with immobilized meso-tetraphenylporphyrin for parabens photodegradation. Catalysis Today, 2015, 240, 160-167. | 2.2 | 39 |
| 24 | Antibacterial, Antiviral, and Oxygen-Sensing Nanoparticles Prepared from Electrospun Materials. ACS Applied Materials & Interfaces, 2016, 8, 25127-25136. | 4.0 | 39 |
| 25 | Synthesis, crystal structures and NMR and luminescence spectra of lanthanide complexes of 1,4,7,10-tetraazacyclododecane with N-methylene(phenyl)phosphinic acid pendant armsâ€Šâ€. Journal of the Chemical Society Dalton Transactions, 1999, , 3585-3592. | 1.1 | 38 |
| 26 | Virucidal Nanofiber Textiles Based on Photosensitized Production of Singlet Oxygen. PLoS ONE, 2012, 7, e49226. | 1.1 | 38 |
| 27 | Low-temperature deposition of anatase on nanofiber materials for photocatalytic NOx removal. Catalysis Today, 2014, 230, 74-78. | 2.2 | 34 |
| 28 | Photodynamic therapy with zinc-tetra(p-sulfophenyl)porphyrin bound to cyclodextrin induces single strand breaks of cellular DNA in G361 melanoma cells. Toxicology in Vitro, 2005, 19, 971-974. | 1.1 | 32 |
| 29 | A [2+2+2]â€Cyclotrimerization Approach to Selectively Substituted Fluorenes and Fluorenols, and Their Conversion to 9,9â€²â€Spirobifluorenes. Chemistry - A European Journal, 2015, 21, 13577-13582. | 1.7 | 32 |
| 30 | Antibacterial nitric oxide- and singlet oxygen-releasing polystyrene nanoparticles responsive to light and temperature triggers. Nanoscale, 2018, 10, 2639-2648. | 2.8 | 31 |
| 31 | Cyclodextrin carriers of positively charged porphyrin sensitizers. Organic and Biomolecular Chemistry, 2009, 7, 3797. | 1.5 | 30 |
| 32 | Singlet Oxygen Imaging in Polymeric Nanofibers by Delayed Fluorescence. Journal of Physical Chemistry B, 2010, 114, 15773-15779. | 1.2 | 30 |
| 33 | Host-guest complexes of anionic porphyrin sensitizers with cyclodextrins. Journal of Porphyrins and Phthalocyanines, 2002, 06, 514-526. | 0.4 | 29 |
| 34 | In vitro toxicity testing of supramolecular sensitizers for photodynamic therapy. Toxicology in Vitro, 2003, 17, 775-778. | 1.1 | 29 |
| 35 | Supramolecular carriers of singlet oxygen: Photosensitized formation and thermal decomposition of endoperoxides in the presence of cyclodextrins. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 195, 1-9. | 2.0 | 27 |
| 36 | A NO photoreleasing supramolecular hydrogel with bactericidal action. Journal of Materials Chemistry B, 2013, 1, 3458. | 2.9 | 25 |

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|---|---|---|---|
| 37 | Comparison of sensitizers by detecting reactive oxygen species after photodynamic reaction in vitro. Toxicology in Vitro, 2007, 21, 1287-1291. | 1.1 | 24 |
| 38 | Photoactive oriented films of layered double hydroxides. Physical Chemistry Chemical Physics, 2008, 10, 4429. | 1.3 | 23 |
| 39 | Effect of Temperature on Photophysical Properties of Polymeric Nanofiber Materials with Porphyrin Photosensitizers. Journal of Physical Chemistry B, 2014, 118, 6167-6174. | 1.2 | 22 |
| 40 | Nanoparticles with Embedded Porphyrin Photosensitizers for Photooxidation Reactions and Continuous Oxygen Sensing. ACS Applied Materials & Interfaces, 2017, 9, 36229-36238. | 4.0 | 22 |
| 41 | Comparison of two photosensitizers Al(III) phthalocyanine chloride tetrasulfonic acid and meso-tetrakis(4-sulfonatophenyl)porphyrin in the photooxidation of n-butylparaben. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 223, 50-56. | 2.0 | 21 |
| 42 | Anion exchange nanofiber materials activated by daylight with a dual antibacterial effect. Photochemical and Photobiological Sciences, 2014, 13, 1321-1329. | 1.6 | 21 |
| 43 | Synthesis of selectively 4-substituted 9,9â€²-spirobifluorenes and modulation of their photophysical properties. Organic and Biomolecular Chemistry, 2017, 15, 6913-6920. | 1.5 | 19 |
| 44 | Photoactivatable Nanostructured Surfaces for Biomedical Applications. Topics in Current Chemistry, 2016, 370, 135-168. | 4.0 | 17 |
| 45 | Determination of Singlet Oxygen Production and Antibacterial Effect of Nonpolar Porphyrins In Heterogeneous Systems. Analytical Letters, 2000, 33, 1091-1104. | 1.0 | 15 |
| 46 | Study of photodynamic effects on NIH 3T3 cell line and bacteria. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2014, 158, 201-207. | 0.2 | 15 |
| 47 | Straightforward Synthesis and Properties of Highly Fluorescent [5]â€•and [7]â€Helical Dispiroindeno[2,1â€•c]fluorenes. Angewandte Chemie - International Edition, 2019, 58, 17169-17174. | 7.2 | 13 |
| 48 | Synthesis of Tri- and Disubstituted Fluorenols and Derivatives Thereof Using Catalytic [2+2+2] Cyclotrimerization. Catalysts, 2019, 9, 942. | 1.6 | 12 |
| 49 | Polystyrene and Poly(ethylene glycol)-b-Poly(Îµ-caprolactone) Nanoparticles with Porphyrins: Structure, Size, and Photooxidation Properties. Langmuir, 2020, 36, 302-310. | 1.6 | 12 |
| 50 | Effects of zinc porphyrin and zinc phthalocyanine derivatives in photodynamic anticancer therapy under different partial pressures of oxygen in vitro. Investigational New Drugs, 2021, 39, 89-97. | 1.2 | 12 |
| 51 | Graphene oxide nanohybrid that photoreleases nitric oxide. Journal of Materials Chemistry B, 2016, 4, 5825-5830. | 2.9 | 11 |
| 52 | The effect of iodide and temperature on enhancing antibacterial properties of nanoparticles with an encapsulated photosensitizer. Colloids and Surfaces B: Biointerfaces, 2019, 176, 334-340. | 2.5 | 11 |
| 53 | Multifunctional Photosensitizing and Biotinylated Polystyrene Nanofiber Membranes/Composites for Binding of Biologically Active Compounds. ACS Applied Materials & Interfaces, 2020, 12, 18792-18802. | 4.0 | 11 |
| 54 | Study of the Photodynamic Effect on the A549 Cell Line by Atomic Force Microscopy and the Influence of Green Tea Extract on the Production of Reactive Oxygen Species. Annals of the New York Academy of Sciences, 2009, 1171, 549-558. | 1.8 | 10 |

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| 55 | 2-Chlorophenol photooxidation using immobilized meso-tetraphenylporphyrin in polyurethane nanofabrics. Photochemical and Photobiological Sciences, 2012, 11, 1422. | 1.6 | 10 |
| 56 | Phototoxic effect of TPPS4 and MgTPPS4 on DNA fragmentation of HeLa cells. Toxicology in Vitro, 2011, 25, 1169-1172. | 1.1 | 8 |
| 57 | Optimization of the photodynamic inactivation of prions by a phthalocyanine photosensitizer: The crucial involvement of singlet oxygen. Journal of Biophotonics, 2019, 12, e201800340. | 1.1 | 8 |
| 58 | Photodynamic effect of TPP encapsulated in polystyrene nanoparticles toward multi-resistant pathogenic bacterial strains: AFM evaluation. Scientific Reports, 2021, 11, 6786. | 1.6 | 8 |
| 59 | Polymeric Membranes Containing Iodine-Loaded UiO-66 Nanoparticles as Water-Responsive Antibacterial and Antiviral Surfaces. ACS Applied Nano Materials, 2022, 5, 1244-1251. | 2.4 | 6 |
| 60 | Multifunctional polystyrene nanofiber membrane with bounded polyethyleneimine and NO photodonor: dark- and light-induced antibacterial effect and enhanced CO2 adsorption. Journal of Materials Science, 2019, 54, 2740-2753. | 1.7 | 5 |
| 61 | NMR study of hostâ€“guest complexes of disulfonated derivatives of 9, 10-diphenylanthracene and corresponding endoperoxides with cyclodextrins. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2008, 61, 241-250. | 1.6 | 4 |
| 62 | Straightforward Synthesis and Properties of Highly Fluorescent [5]â€•and [7]â€Helical Dispiroindeno[2,1â€•c ]fluorenes. Angewandte Chemie, 2019, 131, 17329-17334. | 1.6 | 4 |
| 63 | Chapter 15. Nanofibers and Nanocomposite Films for Singlet Oxygen-Based Applications. Comprehensive Series in Photochemical and Photobiological Sciences, 2016, , 305-321. | 0.3 | 4 |
| 64 | Photophysical Properties and Photoinduced Electron Transfer Within Host-Guest Complexes of 5,10,15,20-Tetrakis(4-N-methylpyridyl)porphyrin with Water-soluble Calixarenes and CyclodextrinsÂ¶. Photochemistry and Photobiology, 2001, 74, 558-565. | 1.3 | 3 |
| 65 | Biological Evaluation of Photodynamic Effect Mediated by Nanoparticles with Embedded Porphyrin Photosensitizer. International Journal of Molecular Sciences, 2022, 23, 3588. | 1.8 | 3 |
| 66 | Antibacterial Nanoparticles with Natural Photosensitizers Extracted from Spinach Leaves. ACS Omega, 2022, 7, 1505-1513. | 1.6 | 3 |
| 67 | The preparation of the salts of heteropolyacids by tempering a mixture of the solid components. Collection of Czechoslovak Chemical Communications, 1987, 52, 1468-1479. | 1.0 | 2 |
| 68 | Resonance Raman spectra of bis (2,4-pentanedithionate) palladium (II) complex. Journal of Molecular Structure, 1992, 265, 9-16. | 1.8 | 1 |
| 69 | The formation of single crystals of the salts of heteropolyacids in the fused salt. Collection of Czechoslovak Chemical Communications, 1987, 52, 2664-2666. | 1.0 | 0 |