# Masahiko Taniguchi

List of Publications by Year
in descending order



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|---|---|---|---|
| 111 papers | 4,275 citations | 94269 37 h-index | 118652 62 g-index |
| 117 all docs | 117 docs citations | 117 times ranked | 3346 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Database of Absorption and Fluorescence Spectra of >300 Common Compounds for use in Photochem<scp>CAD</scp>. Photochemistry and Photobiology, 2018, 94, 290-327. | 1.3 | 306 |
| 2 | A Scalable Synthesis of Meso-Substituted Dipyrromethanes. Organic Process Research and Development, 2003, 7, 799-812. | 1.3 | 284 |
| 3 | Synthetic Chlorins, Possible Surrogates for Chlorophylls, Prepared by Derivatization of Porphyrins. Chemical Reviews, 2017, 117, 344-535. | 23.0 | 250 |
| 4 | PhotochemCAD 2: A Refined Program with Accompanying Spectral Databases for Photochemical CalculationsÂ¶. Photochemistry and Photobiology, 2005, 81, 212. | 1.3 | 202 |
| 5 | Accessing the near-infrared spectral region with stable, synthetic, wavelength-tunable bacteriochlorins. New Journal of Chemistry, 2008, 32, 947. | 1.4 | 120 |
| 6 | Examination of Tethered Porphyrin, Chlorin, and Bacteriochlorin Molecules in Mesoporous Metal-Oxide Solar Cells. Journal of Physical Chemistry C, 2007, 111, 15464-15478. | 1.5 | 98 |
| 7 | Photophysical Properties and Electronic Structure of Stable, Tunable Synthetic Bacteriochlorins: Extending the Features of Native Photosynthetic Pigments. Journal of Physical Chemistry B, 2011, 115, 10801-10816. | 1.2 | 93 |
| 8 | Synthetic Chlorins Bearing Auxochromes at the 3- and 13-Positions. Journal of Organic Chemistry, 2006, 71, 4092-4102. | 1.7 | 92 |
| 9 | Comprehensive review of photophysical parameters (Îµ, Î¦f, Ï„s) of tetraphenylporphyrin (H2TPP) and zinc tetraphenylporphyrin (ZnTPP) â€“ Critical benchmark molecules in photochemistry and photosynthesis. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2021, 46, 100401. | 5.6 | 90 |
| 10 | Synthesis and Physicochemical Properties of Metallobacteriochlorins. Inorganic Chemistry, 2012, 51, 9443-9464. | 1.9 | 89 |
| 11 | PhotochemCAD 3: Diverse Modules for Photophysical Calculations with Multiple Spectral Databases. Photochemistry and Photobiology, 2018, 94, 277-289. | 1.3 | 87 |
| 12 | Synthesis of Meso-Substituted Chlorins via Tetrahydrobilene-a Intermediates. Journal of Organic Chemistry, 2001, 66, 7342-7354. | 1.7 | 86 |
| 13 | A Tin-Complexation Strategy for Use with Diverse Acylation Methods in the Preparation of 1,9-Diacyldipyrromethanes. Journal of Organic Chemistry, 2004, 69, 765-777. | 1.7 | 78 |
| 14 | Effects of Substituents on Synthetic Analogs of Chlorophylls. Part 2: Redox Properties, Optical Spectra and Electronic Structure. Photochemistry and Photobiology, 2007, 83, 1125-1143. | 1.3 | 77 |
| 15 | Photophysical Properties and Electronic Structure of Porphyrins Bearing Zero to Four <i>meso</i>-Phenyl Substituents: New Insights into Seemingly Well Understood Tetrapyrroles. Journal of Physical Chemistry A, 2016, 120, 9719-9731. | 1.1 | 75 |
| 16 | Regioselective 15-Bromination and Functionalization of a Stable Synthetic Bacteriochlorin. Journal of Organic Chemistry, 2007, 72, 5350-5357. | 1.7 | 68 |
| 17 | Effects of Substituents on Synthetic Analogs of Chlorophylls. Part 1: Synthesis, Vibrational Properties and Excited-state Decay Characteristics. Photochemistry and Photobiology, 2007, 83, 1110-1124. | 1.3 | 68 |
| 18 | Sparsely substituted chlorins as core constructs in chlorophyll analogue chemistry. Part 3: Spectral and structural properties. Tetrahedron, 2007, 63, 3850-3863. | 1.0 | 63 |

| # | Article | IF | Citations |
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| 19 | Synthesis of phenylethyne-linked porphyrin dyads. Tetrahedron, 2004, 60, 2011-2023. | 1.0 | 62 |
| 20 | Synthesis and Electronic Properties of Regioisomerically Pure Oxochlorins. Journal of Organic Chemistry, 2002, 67, 7329-7342. | 1.7 | 59 |
| 21 | Alkylthio Unit as an Î±-Pyrrole Protecting Group for Use in Dipyrromethane Synthesis. Journal of Organic Chemistry, 2006, 71, 903-910. | 1.7 | 59 |
| 22 | PhotochemCAD 2: A Refined Program with Accompanying Spectral Databases for Photochemical Calculations<sup>Â¶</sup>. Photochemistry and Photobiology, 2005, 81, 212-213. | 1.3 | 58 |
| 23 | Absorption and Fluorescence Spectral Database of Chlorophylls and Analogues. Photochemistry and Photobiology, 2021, 97, 136-165. | 1.3 | 58 |
| 24 | Introduction of a Third Meso Substituent into 5,10-Diaryl Chlorins and Oxochlorins. Journal of Organic Chemistry, 2005, 70, 275-285. | 1.7 | 56 |
| 25 | Sparsely substituted chlorins as core constructs in chlorophyll analogue chemistry. Part 1: Synthesis. Tetrahedron, 2007, 63, 3826-3839. | 1.0 | 56 |
| 26 | Hydrogen Evolution Catalysis by a Sparsely Substituted Cobalt Chlorin. ACS Catalysis, 2017, 7, 3597-3606. | 5.5 | 56 |
| 27 | Extending the Short and Long Wavelength Limits of Bacteriochlorin Near-Infrared Absorption via Dioxo- and Bisimide-Functionalization. Journal of Physical Chemistry B, 2015, 119, 4382-4395. | 1.2 | 55 |
| 28 | Refined Synthesis of 2,3,4,5-Tetrahydro-1,3,3-trimethyldipyrrin, a Deceptively Simple Precursor to Hydroporphyrins. Organic Process Research and Development, 2005, 9, 651-659. | 1.3 | 54 |
| 29 | Masked Imidazolylâˆ'Dipyrromethanes in the Synthesis of Imidazole-Substituted Porphyrins. Journal of Organic Chemistry, 2006, 71, 8807-8817. | 1.7 | 50 |
| 30 | Sparsely substituted chlorins as core constructs in chlorophyll analogue chemistry. Part 2: Derivatization. Tetrahedron, 2007, 63, 3840-3849. | 1.0 | 48 |
| 31 | Synthesis of oligo(p-phenylene)-linked dyads containing free base, zinc(II) or thallium(III) porphyrins for studies in artificial photosynthesis. Tetrahedron, 2010, 66, 5549-5565. | 1.0 | 48 |
| 32 | Synthesis and Excited-State Photodynamics of Perylene-Bis(Imide)-Oxochlorin Dyads. A Charge-Separation Motif. Journal of Physical Chemistry B, 2003, 107, 3443-3454. | 1.2 | 44 |
| 33 | A New Route for Installing the Isocyclic Ring on Chlorins Yielding 131-Oxophorbines. Journal of Organic Chemistry, 2006, 71, 7049-7052. | 1.7 | 43 |
| 34 | 1,9-Bis(N,N-dimethylaminomethyl)dipyrromethanes in the synthesis of porphyrins bearing one or two meso substituents. Tetrahedron, 2005, 61, 10291-10302. | 1.0 | 42 |
| 35 | Imine-substituted dipyrromethanes in the synthesis of porphyrins bearing one or two <i>meso</i> substituents. Journal of Porphyrins and Phthalocyanines, 2005, 09, 554-574. | 0.4 | 41 |
| 36 | Simple Formation of an Abiotic Porphyrinogen in Aqueous Solution. Origins of Life and Evolution of Biospheres, 2009, 39, 495-515. | 0.8 | 40 |

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| 37 | Structural characteristics that make chlorophylls green: interplay of hydrocarbon skeleton and substituents. New Journal of Chemistry, 2011, 35, 76-88. | 1.4 | 40 |
| 38 | Refined syntheses of hydrodipyrrin precursors to chlorin and bacteriochlorin building blocks. Journal of Porphyrins and Phthalocyanines, 2009, 13, 1098-1110. | 0.4 | 39 |
| 39 | Comparison of Excited-State Energy Transfer in Arrays of Hydroporphyrins (Chlorins, Oxochlorins) versus Porphyrins:Â Rates, Mechanisms, and Design Criteria. Journal of the American Chemical Society, 2003, 125, 13461-13470. | 6.6 | 37 |
| 40 | Photophysical Properties of Phenylethyne-Linked Porphyrin and Oxochlorin Dyads. Journal of Physical Chemistry B, 2004, 108, 8190-8200. | 1.2 | 37 |
| 41 | Abiotic formation of uroporphyrinogen and coproporphyrinogen from acyclic reactants. New Journal of Chemistry, 2011, 35, 65-75. | 1.4 | 36 |
| 42 | PhotochemCAD 2. A Refined Program with Accompanying Spectral Database for Photochemical Calculations. Photochemistry and Photobiology, 2004, 81, 212-3. | 1.3 | 36 |
| 43 | Synthesis and Photophysical Characterization of Porphyrin, Chlorin and Bacteriochlorin Molecules Bearing Tethers for Surface Attachment. Photochemistry and Photobiology, 2007, 83, 1513-1528. | 1.3 | 32 |
| 44 | Synthesis and Photochemical Properties of 12-Substituted versus 13-Substituted Chlorins. Journal of Organic Chemistry, 2009, 74, 5276-5289. | 1.7 | 32 |
| 45 | Versatile design of biohybrid light-harvesting architectures to tune location, density, and spectral coverage of attached synthetic chromophores for enhanced energy capture. Photosynthesis Research, 2014, 121, 35-48. | 1.6 | 32 |
| 46 | Synthesis and photophysical properties of chlorins bearing 0-4 distinct meso-substituents. Photochemical and Photobiological Sciences, 2013, 12, 2089-2109. | 1.6 | 29 |
| 47 | Regioselective Bromination Tactics in the de Novo Synthesis of Chlorophyll <i>b</i> Analogues. Journal of Organic Chemistry, 2009, 74, 3237-3247. | 1.7 | 28 |
| 48 | Linker Dependence of Energy and Hole Transfer in Neutral and Oxidized Multiporphyrin Arrays. Journal of Physical Chemistry B, 2009, 113, 16483-16493. | 1.2 | 28 |
| 49 | Photophysical Properties and Electronic Structure of Zinc(II) Porphyrins Bearing 0â€"4 <i>meso</i>-Phenyl Substituents: Zinc Porphine to Zinc Tetraphenylporphyrin (ZnTPP). Journal of Physical Chemistry A, 2020, 124, 7776-7794. | 1.1 | 28 |
| 50 | Self-organization of tetrapyrrole constituents to give a photoactive protocell. Chemical Science, 2012, 3, 1963. | 3.7 | 27 |
| 51 | Photophysical Properties and Electronic Structure of Chlorin-Imides: Bridging the Gap between Chlorins and Bacteriochlorins. Journal of Physical Chemistry B, 2015, 119, 7503-7515. | 1.2 | 27 |
| 52 | Quadruple Decker [3.3][3.3][3.3]Orthocyclophane Acetalâ€"An Orthocyclophane Ladder. Angewandte Chemie - International Edition, 1998, 37, 2532-2534. | 7.2 | 26 |
| 53 | Diversity, isomer composition, and design of combinatorial libraries of tetrapyrrole macrocycles. Journal of Porphyrins and Phthalocyanines, 2012, 16, 1-13. | 0.4 | 24 |
| 54 | A tandem combinatorial model for the prebiogenesis of diverse tetrapyrrole macrocycles. New Journal of Chemistry, 2012, 36, 1057. | 1.4 | 24 |

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| 55 | Virtual Libraries of Tetrapyrrole Macrocycles. Combinatorics, Isomers, Product Distributions, and Data Mining. Journal of Chemical Information and Modeling, 2011, 51, 2233-2247. | 2.5 | 23 |
| 56 | Heuristics from Modeling of Spectral Overlap in FÃ¶rster Resonance Energy Transfer (FRET). Journal of Chemical Information and Modeling, 2019, 59, 652-667. | 2.5 | 22 |
| 57 | Determination of Ground-State Hole-Transfer Rates Between Equivalent Sites in Oxidized Multiporphyrin Arrays Using Time-Resolved Optical Spectroscopy. Journal of the American Chemical Society, 2008, 130, 15636-15648. | 6.6 | 21 |
| 58 | Structural studies of sparsely substituted synthetic chlorins and phorbines establish benchmarks for changes in the ligand core and framework of chlorophyll macrocycles. Journal of Molecular Structure, 2010, 979, 27-45. | 1.8 | 21 |
| 59 | The fluorescence quantum yield parameter in FÃ¶rster resonance energy transfer (FRET)â€"Meaning, misperception, and molecular design. Chemical Physics Reviews, 2021, 2, 011302. | 2.6 | 20 |
| 60 | Primordial Oil Slick and the Formation of Hydrophobic Tetrapyrrole Macrocycles. Astrobiology, 2012, 12, 1055-1068. | 1.5 | 19 |
| 61 | Expanded combinatorial formation of porphyrin macrocycles in aqueous solution containing vesicles. A prebiotic model. New Journal of Chemistry, 2013, 37, 1073. | 1.4 | 19 |
| 62 | Competing Knorr and Fischerâ€"Fink pathways to pyrroles in neutral aqueous solution. Tetrahedron, 2012, 68, 6957-6967. | 1.0 | 18 |
| 63 | Excited-State Energy Flow in Phenylene-Linked Multiporphyrin Arrays. Journal of Physical Chemistry B, 2009, 113, 8011-8019. | 1.2 | 17 |
| 64 | Aqueousâ€"membrane partitioning of Î²-substituted porphyrins encompassing diverse polarity. New Journal of Chemistry, 2013, 37, 1087. | 1.4 | 16 |
| 65 | Synthesis, photophysics and electronic structure of oxobacteriochlorins. New Journal of Chemistry, 2017, 41, 3732-3744. | 1.4 | 16 |
| 66 | Phenylene-linked tetrapyrrole arrays containing free base and diverse metal chelate forms â€" Versatile synthetic architectures for catalysis and artificial photosynthesis. Coordination Chemistry Reviews, 2022, 456, 214278. | 9.5 | 16 |
| 67 | Bioconjugatable, PEGylated hydroporphyrins for photochemistry and photomedicine. Narrow-band, near-infrared-emitting bacteriochlorins. New Journal of Chemistry, 2016, 40, 7750-7767. | 1.4 | 15 |
| 68 | A perspective on the redox properties of tetrapyrrole macrocycles. Physical Chemistry Chemical Physics, 2021, 23, 19130-19140. | 1.3 | 15 |
| 69 | The Study of Ï€â€"Ï€ Interaction in Layered [3.3]Orthocyclophanes. Charge-Transfer Complexes of [3.3]Orthocyclophanes with Tetracyanoethylene. Bulletin of the Chemical Society of Japan, 1998, 71, 2661-2668. | 2.0 | 14 |
| 70 | Tolyporphins Aâ€"R, unusual tetrapyrrole macrocycles in a cyanobacterium from Micronesia, assessed quantitatively from the culture HT-58-2. New Journal of Chemistry, 0, , . | 1.4 | 14 |
| 71 | Near-infrared tunable bacteriochlorins equipped for bioorthogonal labeling. New Journal of Chemistry, 2015, 39, 4534-4550. | 1.4 | 13 |
| 72 | Photophysical properties and electronic structure of retinylideneâ€"chlorinâ€"chalcones and analogues. Photochemical and Photobiological Sciences, 2014, 13, 634-650. | 1.6 | 12 |

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| 73 | Paley's watchmaker analogy and prebiotic synthetic chemistry in surfactant assemblies. Formaldehyde scavenging by pyrroles leading to porphyrins as a case study. Organic and Biomolecular Chemistry, 2015, 13, 10025-10031. | 1.5 | 12 |
| 74 | Beyond green with synthetic chlorophylls â€“ Connecting structural features with spectral properties. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2022, 52, 100513. | 5.6 | 12 |
| 75 | Progress towards synthetic chlorins with graded polarity, conjugatable substituents, and wavelength tunability. Journal of Porphyrins and Phthalocyanines, 2015, 19, 547-572. | 0.4 | 10 |
| 76 | Bisacetals of aromatic ring-annelated . [3.3][3.3]Orthocyclophanes with triple-layered benzo/benzo/benzo- and naphtho/benzo/naphtho-system. Tetrahedron, 1997, 53, 3015-3026. | 1.0 | 9 |
| 77 | Probing Groundâ€state Hole Transfer Between Equivalent, Electrochemically Inaccessible States in Multiporphyrin Arrays Using Timeâ€resolved Optical Spectroscopy. Photochemistry and Photobiology, 2009, 85, 693-704. | 1.3 | 9 |
| 78 | Statistical considerations on the formation of circular photosynthetic light-harvesting complexes from Rhodopseudomonas palustris. Photosynthesis Research, 2014, 121, 49-60. | 1.6 | 9 |
| 79 | Synthesis of diverse acyclic precursors to pyrroles for studies of prebiotic routes to tetrapyrrole macrocycles. New Journal of Chemistry, 2016, 40, 8786-8808. | 1.4 | 9 |
| 80 | Comparison of Electron-Transfer Rates for Metal- versus Ring-Centered Redox Processes of Porphyrins in Monolayers on Au(111). Langmuir, 2008, 24, 12047-12053. | 1.6 | 8 |
| 81 | Probing the Rate of Hole Transfer in Oxidized Porphyrin Dyads Using Thallium Hyperfine Clocks. Journal of the American Chemical Society, 2010, 132, 12121-12132. | 6.6 | 8 |
| 82 | Encoding isotopic watermarks in molecular electronic materials as an anti-counterfeiting strategy: Application to porphyrins for information storage. Journal of Porphyrins and Phthalocyanines, 2011, 15, 505-516. | 0.4 | 8 |
| 83 | Complexity in structure-directed prebiotic chemistry. Unexpected compositional richness from competing reactants in tetrapyrrole formation. New Journal of Chemistry, 2016, 40, 6421-6433. | 1.4 | 8 |
| 84 | Enumeration of Virtual Libraries of Combinatorial Modular Macrocyclic (Bracelet, Necklace) Architectures and Their Linear Counterparts. Journal of Chemical Information and Modeling, 2013, 53, 2203-2216. | 2.5 | 7 |
| 85 | Integration of Cyanine, Merocyanine and Styryl Dye Motifs with Synthetic Bacteriochlorins. Photochemistry and Photobiology, 2016, 92, 111-125. | 1.3 | 7 |
| 86 | The Porphobilinogen Conundrum in Prebiotic Routes to Tetrapyrrole Macrocycles. Origins of Life and Evolution of Biospheres, 2017, 47, 93-119. | 0.8 | 7 |
| 87 | Synthesis and Spectral Properties of meso-Arylbacteriochlorins, Including Insights into Essential Motifs of their Hydrodipyrrin Precursors. Molecules, 2017, 22, 634. | 1.7 | 7 |
| 88 | Fluorescence Assay for Tolyporphins Amidst Abundant Chlorophyll in Crude Cyanobacterial Extracts. Photochemistry and Photobiology, 2021, , . | 1.3 | 7 |
| 89 | Electronic Structure and Excited-State Dynamics of Ryleneâ€“Tetrapyrrole Panchromatic Absorbers. Journal of Physical Chemistry A, 2021, 125, 7900-7919. | 1.1 | 7 |
| 90 | Benzo[3.3]benzo[3.3]benzo- and naphtho[3.3]benzo[3.3]naphtho-orthocyclophane bis(alcohol)s. Preparations and structures. Tetrahedron, 1998, 54, 5171-5186. | 1.0 | 6 |

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| 91 | Thieno[3.3]orthocyclophanes: preparations and structures. New Journal of Chemistry, 1999, 23, 675-678. | 1.4 | 6 |
| 92 | Probing the Rate of Hole Transfer in Oxidized Synthetic Chlorin Dyads via Site-Specific <sup>13</sup>C-Labeling. Journal of Organic Chemistry, 2010, 75, 3193-3202. | 1.7 | 6 |
| 93 | Elaboration of an unexplored substitution site in synthetic bacteriochlorins. Journal of Porphyrins and Phthalocyanines, 2015, 19, 887-902. | 0.4 | 6 |
| 94 | Bioconjugatable synthetic chlorins rendered water-soluble with three PEG-12 groups <i>via</i> click chemistry. Journal of Porphyrins and Phthalocyanines, 2020, 24, 362-378. | 0.4 | 6 |
| 95 | Enumeration of Isomers of Substituted Tetrapyrrole Macrocycles: From Classical Problems in Biology to Modern Combinatorial Libraries. Handbook of Porphyrin Science, 2012, , 1-80. | 0.3 | 5 |
| 96 | Complexity in structure-directed prebiotic chemistry. Effect of a defective competing reactant in tetrapyrrole formation. New Journal of Chemistry, 2015, 39, 8273-8281. | 1.4 | 5 |
| 97 | Conformational Analysis of Spirocyclopropane- and Spirooxirane-annelated Dibenzobicyclo[4.4.1]undecanes by 1H NMR Spectroscopy and X-Ray Crystallography. Journal of Chemical Research Synopses, 1997, , 48-49. | 0.3 | 4 |
| 98 | Radiosynthesis of [18F]N-(4-phenylbutyl)-4-(4-fluorobenzoyl)piperidine for studying serotonin 5-HT2a receptors. Journal of Labelled Compounds and Radiopharmaceuticals, 1998, 41, 941-949. | 0.5 | 4 |
| 99 | Activation Energies for Oxidation of Porphyrin Monolayers Anchored to Au(111). Langmuir, 2010, 26, 15718-15721. | 1.6 | 4 |
| 100 | NMR spectral properties of 16 synthetic bacteriochlorins with site-specific 13C or 15N substitution. Journal of Porphyrins and Phthalocyanines, 2014, 18, 433-456. | 0.4 | 4 |
| 101 | Scope and limitations of two model prebiotic routes to tetrapyrrole macrocycles. New Journal of Chemistry, 2016, 40, 7445-7455. | 1.4 | 4 |
| 102 | Developing a user community in the photosciences: a website for spectral data and PhotochemCAD. , 2019, , . | | 4 |
| 103 | Absorption and fluorescence spectra of organic compounds from 40 sources â€" archives, repositories, databases, and literature search engines. , 2020, , . | | 4 |
| 104 | Layered [3.3]Orthocyclophane Tricarbonylchromium Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1999, 625, 1249-1251. | 0.6 | 3 |
| 105 | Complexity in structure-directed prebiotic chemistry. Reaction bifurcation from a Î²-diketone in tetrapyrrole formation. New Journal of Chemistry, 2016, 40, 6434-6440. | 1.4 | 3 |
| 106 | Synthesis of 8,16-dimethyl- and 8,16-dimethoxy-5,13-di-t-butyl[2.2]metacyclophane-1,2,9,10-tetraone. Tetrahedron Letters, 1999, 40, 4691-4692. | 0.7 | 2 |
| 107 | Analysis of Wikipedia pageviews to identify popular chemicals. , 2020, , . | | 2 |
| 108 | Novel rearrangement of conformationally restrained [3.3]orthocyclophanes. Journal of the Chemical Society Perkin Transactions 1, 1999, , 2101-2108. | 0.9 | 1 |

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| 109 | Red and near-infrared fluorophores inspired by chlorophylls: consideration of practical brightness in multicolor flow cytometry and biomedical sciences. , 2018, , . | | 1 |
| 110 | Crystal Structure of 1,9-Dibromo-5-phenyldipyrrin, Tetrapyrrole Synthesis Derivative and Free Base Ligand of BODIPY Building Blocks. X-ray Structure Analysis Online, 2020, 36, 21-22. | 0.1 | 1 |
| 111 | A Tin-Complexation Strategy for Use with Diverse Acylation Methods in the Preparation of 1,9-Diacyldipyrromethanes.. ChemInform, 2004, 35, no. | 0.1 | 0 |