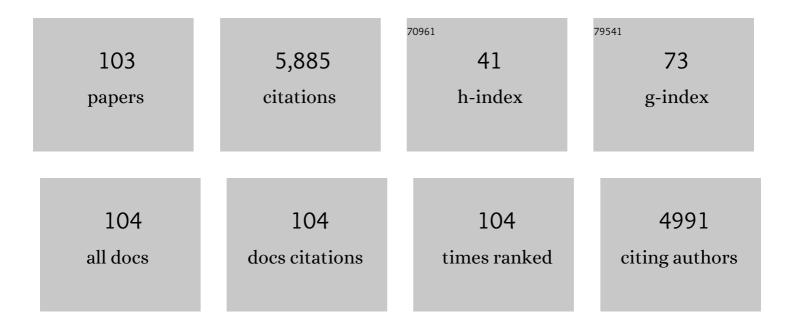
List of Publications by Year in descending order

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Τλολεμι ΕΜΔ

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Recent progress in catalytic conversions of carbon dioxide. Catalysis Science and Technology, 2014, 4, 1482. | 2.1 | 463 |
| 2 | Bifunctional Porphyrin Catalysts for the Synthesis of Cyclic Carbonates from Epoxides and CO ₂ : Structural Optimization and Mechanistic Study. Journal of the American Chemical Society, 2014, 136, 15270-15279. | 6.6 | 404 |
| 3 | Bifunctional Catalysts Based on <i>m</i> â€Phenyleneâ€Bridged Porphyrin Dimer and Trimer Platforms: Synthesis of Cyclic Carbonates from Carbon Dioxide and Epoxides. Angewandte Chemie - International Edition, 2015, 54, 134-138. | 7.2 | 273 |
| 4 | A bifunctional catalyst for carbon dioxide fixation: cooperative double activation of epoxides for the synthesis of cyclic carbonates. Chemical Communications, 2012, 48, 4489. | 2.2 | 268 |
| 5 | Highly Active and Robust Metalloporphyrin Catalysts for the Synthesis of Cyclic Carbonates from a Broad Range of Epoxides and Carbon Dioxide. Chemistry - A European Journal, 2016, 22, 6556-6563. | 1.7 | 176 |
| 6 | Versatile and Practical Macrocyclic Reagent with Multiple Hydrogen-Bonding Sites for Chiral Discrimination in NMR. Journal of the American Chemical Society, 2007, 129, 10591-10596. | 6.6 | 170 |
| 7 | Highly active and robust organic–inorganic hybrid catalyst for the synthesis of cyclic carbonates from carbon dioxide and epoxides. Green Chemistry, 2008, 10, 337. | 4.6 | 169 |
| 8 | Solvent-Induced Sign Inversion of Circularly Polarized Luminescence: Control of Excimer Chirality by Hydrogen Bonding. Journal of the American Chemical Society, 2020, 142, 1774-1779. | 6.6 | 157 |
| 9 | Binaphthyl–Bipyridyl Cyclic Dyads as a Chiroptical Switch. Journal of the American Chemical Society, 2018, 140, 5334-5338. | 6.6 | 155 |
| 10 | Bifunctional Organocatalyst for Activation of Carbon Dioxide and Epoxide To Produce Cyclic Carbonate: Betaine as a New Catalytic Motif. Organic Letters, 2010, 12, 5728-5731. | 2.4 | 153 |
| 11 | Evolving Fluorophores into Circularly Polarized Luminophores with a Chiral Naphthalene Tetramer: Proposal of Excimer Chirality Rule for Circularly Polarized Luminescence. Journal of the American Chemical Society, 2019, 141, 6185-6190. | 6.6 | 142 |
| 12 | Suzukiâ^'Miyaura Coupling Reaction Using Pentafluorophenylboronic Acid. Organic Letters, 2005, 7, 4915-4917. | 2.4 | 116 |
| 13 | Quaternary ammonium hydroxide as a metal-free and halogen-free catalyst for the synthesis of cyclic carbonates from epoxides and carbon dioxide. Catalysis Science and Technology, 2015, 5, 2314-2321. | 2.1 | 107 |
| 14 | Azaheliceneâ€Fused BODIPY Analogues Showing Circularly Polarized Luminescence. Angewandte Chemie - International Edition, 2020, 59, 7813-7817. | 7.2 | 102 |
| 15 | Highly Efficient Chemoenzymatic Synthesis of Methyl (<i>R</i>)â€ <i>o</i> hloromandelate, a Key Intermediate for Clopidogrel, <i>via</i> Asymmetric Reduction with Recombinant <i>Escherichia coli</i> . Advanced Synthesis and Catalysis, 2008, 350, 2039-2044. | 2.1 | 99 |
| 16 | Robust porphyrin catalysts immobilized on biogenous iron oxide for the repetitive conversions of epoxides and CO2 into cyclic carbonates. Green Chemistry, 2013, 15, 2485. | 4.6 | 95 |
| 17 | Stereoselective Synthesis of Bicyclic Tertiary Alcohols with Quaternary Stereocenters via Intramolecular Crossed Benzoin Reactions Catalyzed by <i>N</i> -Heterocyclic Carbenes. Organic Letters, 2009, 11, 4866-4869. | 2.4 | 81 |
| 18 | Asymmetric reduction of ketones using recombinant E. coli cells that produce a versatile carbonyl reductase with high enantioselectivity and broad substrate specificity. Tetrahedron, 2006, 62, 6143-6149. | 1.0 | 79 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Intense excimer CPL of pyrenes linked to a quaternaphthyl. Chemical Communications, 2018, 54, 1449-1452. | 2.2 | 77 |
| 20 | Versatile and Practical Chiral Shift Reagent with Hydrogen-Bond Donor/Acceptor Sites in a Macrocyclic Cavity. Organic Letters, 2006, 8, 3773-3775. | 2.4 | 74 |
| 21 | Axially Chiral <i>peri</i> -Xanthenoxanthenes as a Circularly Polarized Luminophore. Journal of the American Chemical Society, 2019, 141, 11852-11857. | 6.6 | 72 |
| 22 | Rational strategies for highly enantioselective lipase-catalyzed kinetic resolutions of very bulky chiral compounds: substrate design and high-temperature biocatalysis. Tetrahedron: Asymmetry, 2004, 15, 2765-2770. | 1.8 | 68 |
| 23 | Hemisquaramide Tweezers as Organocatalysts: Synthesis of Cyclic Carbonates from Epoxides and CO ₂ . Organic Letters, 2019, 21, 1397-1401. | 2.4 | 66 |
| 24 | Determination of enantiomeric excess of carboxylates by fluorescent macrocyclic sensors. Chemical Science, 2016, 7, 2016-2022. | 3.7 | 65 |
| 25 | Highly Sensitive Chiral Shift Reagent Bearing Two Zinc Porphyrins. Organic Letters, 2005, 7, 3985-3988. | 2.4 | 57 |
| 26 | Highly enantioselective and efficient synthesis of methyl (R)-o-chloromandelate with recombinant E. coli: toward practical and green access to clopidogrel. Organic and Biomolecular Chemistry, 2007, 5, 1175. | 1.5 | 55 |
| 27 | Redesign of enzyme for improving catalytic activity and enantioselectivity toward poor substrates: manipulation of the transition state. Organic and Biomolecular Chemistry, 2012, 10, 6299. | 1.5 | 55 |
| 28 | Unexpected Macrocyclic Multinuclear Zinc and Nickel Complexes that Function as Multitasking Catalysts for CO ₂ Fixations. Angewandte Chemie - International Edition, 2019, 58, 9984-9988. | 7.2 | 55 |
| 29 | Chiral porphyrin dimer with a macrocyclic cavity for intercalation of aromatic guests. Chemical Communications, 2011, 47, 6090. | 2.2 | 54 |
| 30 | Electronic Tuning of Zinc Porphyrin Catalysts for the Conversion of Epoxides and Carbon Dioxide into Cyclic Carbonates. ChemCatChem, 2017, 9, 946-949. | 1.8 | 54 |
| 31 | Aluminum porphyrins with quaternary ammonium halides as catalysts for copolymerization of cyclohexene oxide and CO ₂ : metal–ligand cooperative catalysis. Chemical Science, 2020, 11, 5669-5675. | 3.7 | 54 |
| 32 | Biogenous iron oxide-immobilized palladium catalyst for the solvent-free Suzuki–Miyaura coupling reaction. Tetrahedron Letters, 2012, 53, 329-332. | 0.7 | 53 |
| 33 | Carbazole-Based Boron Dipyrromethenes (BODIPYs): Facile Synthesis, Structures, and Fine-Tunable Optical Properties. Organic Letters, 2015, 17, 3090-3093. | 2.4 | 53 |
| 34 | Chiral Macrocyclic Organocatalysts for Kinetic Resolution of Disubstituted Epoxides with Carbon Dioxide. Organic Letters, 2017, 19, 4070-4073. | 2.4 | 53 |
| 35 | High Enantioselectivity and Broad Substrate Specificity of a Carbonyl Reductase:Â Toward a Versatile Biocatalyst. Journal of Organic Chemistry, 2001, 66, 8682-8684. | 1.7 | 50 |
| 36 | Tuning the Chiral Cavity of Macrocyclic Receptor for Chiral Recognition and Discrimination. Journal of Organic Chemistry, 2008, 73, 9129-9132. | 1.7 | 48 |

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|----|---|-----|-----------|
| 37 | Selective Anion Sensing by Chiral Macrocyclic Receptors with Multiple Hydrogen-Bonding Sites. Organic Letters, 2014, 16, 1302-1305. | 2.4 | 48 |
| 38 | Construction of Contiguous Tetrasubstituted Carbon Stereocenters by Intramolecular Crossed Benzoin Reactions Catalyzed by Nâ€Heterocyclic Carbene (NHC) Organocatalyst. Advanced Synthesis and Catalysis, 2012, 354, 3283-3290. | 2.1 | 46 |
| 39 | Chiroptical and catalytic properties of doubly binaphthyl-strapped chiral porphyrins. Chemical Communications, 2019, 55, 1064-1067. | 2.2 | 45 |
| 40 | Colorâ€Tunable Solidâ€State Fluorescence Emission from Carbazoleâ€Based BODIPYs. Chemistry - A European Journal, 2016, 22, 7508-7513. | 1.7 | 44 |
| 41 | Highly active lipase immobilized on biogenous iron oxide via an organic bridging group: the dramatic effect of the immobilization support on enzymatic function. Green Chemistry, 2011, 13, 3187. | 4.6 | 43 |
| 42 | Circularly Polarized Luminescence Liquids Based on Siloxybinaphthyls: Best Binaphthyl Dihedral Angle in the Excited State. Angewandte Chemie - International Edition, 2021, 60, 9968-9972. | 7.2 | 43 |
| 43 | Synthesis of chiral carbazole-based BODIPYs showing circularly polarized luminescence. Chemical Communications, 2019, 55, 3136-3139. | 2.2 | 42 |
| 44 | Chemical modification of biogenous iron oxide to create an excellent enzyme scaffold. Organic and Biomolecular Chemistry, 2010, 8, 336-338. | 1.5 | 41 |
| 45 | Intermolecular oxygen atomâ<ï€ interaction in the crystal packing of chiral amino alcohol bearing a pentafluorophenyl group. Journal of Fluorine Chemistry, 2003, 122, 201-205. | 0.9 | 40 |
| 46 | Calix[4]pyrroles as macrocyclic organocatalysts for the synthesis of cyclic carbonates from epoxides and carbon dioxide. Catalysis Science and Technology, 2018, 8, 4193-4198. | 2.1 | 40 |
| 47 | Tetrameric and Hexameric Porphyrin Nanorings: Template Synthesis and Photophysical Properties. Journal of the American Chemical Society, 2020, 142, 15661-15666. | 6.6 | 37 |
| 48 | Synthesis of silyl formates, formamides, and aldehydes via solvent-free organocatalytic hydrosilylation of CO2. Chemical Communications, 2020, 56, 5783-5786. | 2.2 | 37 |
| 49 | Asymmetric reduction of a variety of ketones with a recombinant carbonyl reductase: identification of the gene encoding a versatile biocatalyst. Tetrahedron: Asymmetry, 2005, 16, 1075-1078. | 1.8 | 36 |
| 50 | Biomimetic trifunctional organocatalyst showing a great acceleration for the transesterification between vinyl ester and alcohol. Chemical Communications, 2008, , 957. | 2.2 | 36 |
| 51 | Solvent-Free Benzoin and Stetter Reactions with a Small Amount of NHC Catalyst in the Liquid or Semisolid State. Organic Letters, 2016, 18, 5764-5767. | 2.4 | 36 |
| 52 | Azaheliceneâ€Fused BODIPY Analogues Showing Circularly Polarized Luminescence. Angewandte Chemie, 2020, 132, 7887-7891. | 1.6 | 36 |
| 53 | Rational control of enantioselectivity of lipase by site-directed mutagenesis based on the mechanism. Chemical Communications, 2005, , 4650. | 2.2 | 35 |
| 54 | Synergistic effect of quaternary ammonium hydroxide and crown ether on the rapid and clear dissolution of cellulose at room temperature. RSC Advances, 2014, 4, 2523-2525. | 1.7 | 34 |

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|----|---|-----|-----------|
| 55 | Macrocyclic multinuclear metal complexes acting as catalysts for organic synthesis. Catalysis Science and Technology, 2020, 10, 12-34. | 2.1 | 34 |
| 56 | Lipase-Catalyzed Resolution of (2R*,3S*)- and (2R*,3R*)-3-Methyl-3-phenyl-2-aziridinemethanol at Low Temperatures and Determination of the Absolute Configurations of the Four Stereoisomers. Journal of Organic Chemistry, 2005, 70, 1369-1375. | 1.7 | 33 |
| 57 | Lipase-catalyzed dynamic kinetic resolution giving optically active cyanohydrins: use of silica-supported ammonium hydroxide and porous ceramic-immobilized lipase. Tetrahedron, 2008, 64, 2178-2183. | 1.0 | 33 |
| 58 | Synthetic macrocyclic receptors in chiral analysis and separation. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2012, 74, 41-55. | 1.6 | 33 |
| 59 | Transition-state models are useful for versatile biocatalysts: kinetics and thermodynamics of enantioselective acylations of secondary alcohols catalyzed by lipase and subtilisin. Journal of Molecular Catalysis B: Enzymatic, 2003, 22, 181-192. | 1.8 | 32 |
| 60 | Synthesis and Evaluation of Chiral Selectors with Multiple Hydrogen-Bonding Sites in the Macrocyclic Cavities. Journal of Organic Chemistry, 2010, 75, 4492-4500. | 1.7 | 31 |
| 61 | Binaphthylâ€Bridged Pyrenophanes: Intense Circularly Polarized Luminescence Based on a <i>D</i> ₂ Symmetry Strategy. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 30 |
| 62 | Enhancement of the Efficiency of the Low Temperature Method for Kinetic Resolution of Primary Alcohols by Optimizing the Organic Bridges in Porous Ceramic-Immobilized Lipase. Bulletin of the Chemical Society of Japan, 2003, 76, 1441-1446. | 2.0 | 29 |
| 63 | Theoretical Study on Highly Active Bifunctional Metalloporphyrin Catalysts for the Coupling Reaction of Epoxides with Carbon Dioxide. Chemical Record, 2016, 16, 2260-2267. | 2.9 | 29 |
| 64 | Rational creation of mutant enzyme showing remarkable enhancement of catalytic activity and enantioselectivity toward poor substrates. Chemical Communications, 2010, 46, 5440. | 2.2 | 27 |
| 65 | Chiral Bifunctional Metalloporphyrin Catalysts for Kinetic Resolution of Epoxides with Carbon Dioxide. Organic Letters, 2019, 21, 1853-1856. | 2.4 | 26 |
| 66 | Synthesis of a Molecular Tweezer Containing Pentafluorophenyl Groups and Investigation of the π–π Stacking Interaction for a Pentafluorophenyl Group in a Polar Organic Solvent. Bulletin of the Chemical Society of Japan, 2005, 78, 2175-2179. | 2.0 | 25 |
| 67 | Highly enantioselective lipase-catalyzed reactions at high temperatures up to 120°C in organic solvent. Tetrahedron: Asymmetry, 2003, 14, 3943-3947. | 1.8 | 24 |
| 68 | Synthesis of carbazole-based BODIPY dimers showing red fluorescence in the solid state. Organic and Biomolecular Chemistry, 2017, 15, 9283-9287. | 1.5 | 24 |
| 69 | Synthesis and Chiroptical Properties of Chiral Carbazoleâ€Based BODIPYs. Chemistry - A European Journal, 2020, 26, 4261-4268. | 1.7 | 23 |
| 70 | Aggregationâ€Induced Circularly Polarized Luminescence from Boron Complexes with a Carbazolyl Schiff Base. Chemistry - A European Journal, 2020, 26, 13016-13021. | 1.7 | 23 |
| 71 | 5-[4-(1-Hydroxyethyl)phenyl]-10,15,20-triphenylporphyrin as a Probe of the Transition-State Conformation in Hydrolase-Catalyzed Enantioselective Transesterifications. Journal of Organic Chemistry, 2002, 67, 2144-2151. | 1.7 | 22 |
| 72 | Carbazole-based BODIPYs with ethynyl substituents at the boron center: solid-state excimer fluorescence in the VIS/NIR region. Organic and Biomolecular Chemistry, 2017, 15, 7783-7788. | 1.5 | 22 |

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|----|---|-----|-----------|
| 73 | Cross-Coupling Approach to an Array of Macrocyclic Receptors Functioning as Chiral Solvating Agents. Journal of Organic Chemistry, 2018, 83, 10762-10769. | 1.7 | 22 |
| 74 | The effect of temperature on the lipase-catalyzed asymmetric protonation of 1-acetoxy-2-methylcyclohexene giving (R)-2-methylcyclohexanone. Tetrahedron: Asymmetry, 2004, 15, 1929-1932. | 1.8 | 21 |
| 75 | Practical Resolution of 3-Phenyl-2H-azirine-2-methanol at Very Low Temperature by Using Lipase Immobilized on Porous Ceramic and Optimized Acylating Agent. Bulletin of the Chemical Society of Japan, 2003, 76, 1819-1821. | 2.0 | 20 |
| 76 | Reestimation of the Taft's Substituent Constant of the Pentafluorophenyl Group. Journal of Organic Chemistry, 2004, 69, 7340-7343. | 1.7 | 20 |
| 77 | Molecular Recognition of Chiral Diporphyrin Receptor with a Macrocyclic Cavity for Intercalation of Aromatic Compounds. Bulletin of the Chemical Society of Japan, 2012, 85, 101-109. | 2.0 | 19 |
| 78 | Chiral exciplex dyes showing circularly polarized luminescence: extension of the excimer chirality rule. Chemical Science, 2021, 12, 14570-14576. | 3.7 | 19 |
| 79 | Synthesis of Enantiomerically Pure (R,R)- and (S,S)-1,2-Bis(pentafluorophenyl)ethane-1,2-diamine and Evaluation of the pKaValue by Ab Initio Calculations. Bulletin of the Chemical Society of Japan, 2004, 77, 1001-1008. | 2.0 | 18 |
| 80 | Synthesis of molecular tweezers bearing pentafluorophenyl and several pendant aryl groups. Journal of Fluorine Chemistry, 2006, 127, 604-609. | 0.9 | 18 |
| 81 | Circularly Polarized Luminescence Liquids Based on Siloxybinaphthyls: Best Binaphthyl Dihedral Angle in the Excited State. Angewandte Chemie, 2021, 133, 10056-10060. | 1.6 | 18 |
| 82 | <i>C</i> -Methylenation of anilines and indoles with CO ₂ and hydrosilane using a pentanuclear zinc complex catalyst. Chemical Communications, 2021, 57, 8083-8086. | 2.2 | 17 |
| 83 | Chemical Modification of Lipase for Rational Enhancement of Enantioselectivity. Chemistry Letters, 2015, 44, 1374-1376. | 0.7 | 16 |
| 84 | Intramolecular Electronic Coupling in the Thiophene-Bridged Carbazole-Based Diporphyrin. Organic Letters, 2016, 18, 6070-6073. | 2.4 | 16 |
| 85 | Empirical method for predicting enantioselectivity in catalytic reactions: demonstration with lipase and oxazaborolidine. Tetrahedron, 2009, 65, 9583-9591. | 1.0 | 15 |
| 86 | Facile Synthesis of Azahelicenes and Diaza[8]circulenes through the Intramolecular Scholl Reaction. Chemistry - A European Journal, 2021, 27, 15699-15705. | 1.7 | 15 |
| 87 | Minimization of Amounts of Catalyst and Solvent in NHC-Catalyzed Benzoin Reactions of Solid Aldehydes: Mechanistic Consideration of Solid-to-Solid Conversion and Total Synthesis of Isodarparvinol B. ACS Omega, 2020, 5, 10207-10216. | 1.6 | 14 |
| 88 | Enhancement of protein thermostability by three consecutive mutations using loop-walking method and machine learning. Scientific Reports, 2021, 11, 11883. | 1.6 | 13 |
| 89 | Kinetic resolution of 5-(hydroxymethyl)-3-phenyl-2-isoxazoline by using the â€~low-temperature method' with porous ceramic-immobilized lipase. Tetrahedron: Asymmetry, 2005, 16, 1535-1539. | 1.8 | 12 |
| 90 | Chemoenzymatic synthesis of optically active alcohol and β-amino-acid derivative containing the difluoromethylene group. Journal of Molecular Catalysis B: Enzymatic, 2010, 66, 198-202. | 1.8 | 12 |

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| 91 | Synthesis and electronic properties of ï€-expanded carbazole-based porphyrins. Chemical Communications, 2019, 55, 10162-10165. | 2.2 | 12 |
| 92 | Deoxygenative CO ₂ conversions with triphenylborane and phenylsilane in the presence of secondary amines or nitrogen-containing aromatics. Green Chemistry, 2022, 24, 2385-2390. | 4.6 | 12 |
| 93 | Hydrolase-catalyzed Kinetic Resolution of 5-[4-(1-Hydroxyethyl)phenyl]-10,15,20-tris(pentafluorophenyl)porphyrin in Ionic Liquids. Chemistry Letters, 2008, 37, 90-91. | 0.7 | 11 |
| 94 | Ruthenium Complexes Bearing Axially Chiral Bipyridyls: The Mismatched Diastereomer Showed Red Circularly Polarized Phosphorescence. Chemistry - A European Journal, 2022, 28, . | 1.7 | 10 |
| 95 | Palladium Complexes of Carbazoleâ€Based Chalcogenaisophlorins: Synthesis, Structure, and Solidâ€6tate NIR Absorption Spectra. ChemPlusChem, 2017, 82, 1368-1371. | 1.3 | 9 |
| 96 | Unexpected Macrocyclic Multinuclear Zinc and Nickel Complexes that Function as Multitasking Catalysts for CO ₂ Fixations. Angewandte Chemie, 2019, 131, 10089-10093. | 1.6 | 8 |
| 97 | Unexpected Behavior of Diastereomeric Ions in the GasPhase: A Stimulus for Pondering on <i>e</i> Measurements by ESI-MS. Journal of the American Society for Mass Spectrometry, 2013, 24, 573-578. | 1.2 | 7 |
| 98 | Multifunctional Macrocyclic Receptors as Templates for Aromatic Amino Acids: A Rare Example of a Highly Selective Multiâ€Input Multiâ€Output Chemoâ€â€œLogic Gateâ€: ChemPlusChem, 2013, 78, 979-987. | 1.3 | 6 |
| 99 | Binaphthylâ€Bridged Pyrenophanes: Intense Circularly Polarized Luminescence Based on a <i>D</i> ₂ Symmetry Strategy. Angewandte Chemie, 2022, 134, . | 1.6 | 6 |
| 100 | Synthesis and electronic properties of carbazole-based core-modified diporphyrins showing near infrared absorption. Chemical Communications, 2020, 56, 15048-15051. | 2.2 | 5 |
| 101 | Synthetically useful variants of industrial lipases from Burkholderia cepacia and Pseudomonas fluorescens. Organic and Biomolecular Chemistry, 2017, 15, 8713-8719. | 1.5 | 3 |
| 102 | Palladium Complexes of Carbazole-Based Chalcogenaisophlorins: Synthesis, Structure, and Solid-State NIR Absorption Spectra. ChemPlusChem, 2017, 82, 1367-1367. | 1.3 | 0 |
| 103 | Frontispiece: Synthesis and Chiroptical Properties of Chiral Carbazoleâ€Based BODIPYs. Chemistry - A European Journal, 2020, 26, . | 1.7 | 0 |