Tavarekere K Chandrashekar

List of Publications by Year
in descending order

56 papers	2,523 citations	218677 26 h-index	189892 50 g-index
56 all docs	56 docs citations	56 times ranked	1513 citing authors

#	Article	IF	Citations
1	Core-Modified Expanded Porphyrins:Â New Generation Organic Materials. Accounts of Chemical Research, 2003, 36, 676-691.	15.6	364
2	Structural Diversity in Expanded Porphyrins. Accounts of Chemical Research, 2008, 41, 265-279.	15.6	240
3	Core-Modified Expanded Porphyrins with Large Third-Order Nonlinear Optical Response. Journal of the American Chemical Society, 2005, 127, 11608-11609.	13.7	185
4	Novel Core-Modified Expanded Porphyrins withmeso-Aryl Substituents:Â Synthesis, Spectral and Structural Characterization. Journal of the American Chemical Society, 1999, 121, 9053-9068.	13.7	120
5	meso-Tetrakis(p-sulfonatophenyl)N-Confused Porphyrin Tetrasodium Salt: A Potential Sensitizer for Photodynamic Therapy. Journal of Medicinal Chemistry, 2012, 55, 5110-5120.	6.4	116
6	Sapphyrin Supramolecules through Câˆ’Hâ‹…â‹…â‹…â‹…â‹…S and Câˆ’Hâ‹…â‹…â‹…â‹…â‹…Se Hydrogen Bondsâ€”First Structural Characterization ofmeso- Arylsapphyrins Bearing Heteroatoms. Angewandte Chemie - International Edition, 1998, 37, 3394-3397.	13.8	88
7	22Ï€ Smaragdyrin Molecular Conjugates with Aromatic Phenylacetylenes and Ferrocenes:Â Syntheses, Electrochemical, and Photonic Properties. Journal of the American Chemical Society, 2006, 128, 16083-16091.	13.7	83
8	Tetrathia- and Tetraoxarubyrins: Aromatic, Core-Modified, Expanded Porphyrins. Angewandte Chemie International Edition in English, 1997, 36, 2598-2601.	4.4	81
9	In VitroDemonstration of Apoptosis Mediated Photodynamic Activity and NIR Nucleus Imaging through a Novel Porphyrin. ACS Chemical Biology, 2013, 8, 127-132.	3.4	75
10	Bicyclic Baird-type aromaticity. Nature Chemistry, 2017, 9, 1243-1248.	13.6	71
11	34Ï€ Octaphyrin:Â First Structural Characterization of a Planar, Aromatic [1.0.1.0.1.0.1.0] Octaphyrin with Inverted Heterocyclic Rings. Journal of the American Chemical Society, 2001, 123, 8620-8621.	13.7	68
12	meso-Aryl Smaragdyrins:â€‰ Novel Anion and Metal Receptors. Inorganic Chemistry, 2000, 39, 3669-3677.	4.0	67
13	N-Confused Expanded Porphyrin:Â First Example of a Modified Sapphyrin with an Inverted N-Confused Pyrrole Ring. Journal of the American Chemical Society, 2001, 123, 5138-5139.	13.7	64
14	Aromatic Core Modified Decaphyrins with the Largest Two-Photon Absorption Cross-Sections:â€‰ Syntheses and Characterization. Organic Letters, 2006, 8, 2325-2328.	4.6	60
15	Structural Characterization of Meso Aryl Sapphyrins. Journal of Organic Chemistry, 1999, 64, 8693-8697.	3.2	57
16	Meso Aryl Heptaphyrins:â€‰ The First 30Ï€ Aromatic Expanded Porphyrins with an Inverted Structure. Organic Letters, 2000, 2, 3829-3832.	4.6	46
17	30Ï€ Aromatic Meso-Substituted Heptaphyrin Isomers:Â Syntheses, Characterization, and Spectroscopic Studies. Journal of Organic Chemistry, 2002, 67, 6309-6319.	3.2	44
18	Interaction of Rh(I) withmeso-Arylsapphyrins and -Rubyrins:Â First Structural Characterization of Bimetallic Hetero-rubyrin Complexâ€. Inorganic Chemistry, 2001, 40, 1637-1645.	4.0	43

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19	meso-Aryl sapphyrins with heteroatoms; synthesis, characterization, spectral and electrochemical properties. Journal of the Chemical Society Perkin Transactions II, 1999, , 961-968.	0.9	42
20	meso-Substituted Aromatic 34Ï€ Core-Modified Octaphyrins: Syntheses, Characterization and Anion Binding Properties. Chemistry - A European Journal, 2003, 9, 2282-2290.	3.3	33
21	Conformational Change from a Twisted Figureâ€Eight to an Openâ€Extended Structure in Doubly Fused 36Ï€ Coreâ€Modified Octaphyrins Triggered by Protonation: Implication on Photodynamics and Aromaticity. Chemistry - A European Journal, 2013, 19, 17011-17020.	3.3	33
22	Core modified meso-aryl sapphyrins and rubyrins: structural and anion receptor properties. Perkin Transactions II RSC, 2000, , 1788-1793.	1.1	31
23	Characterization of a new meso-aryl rubyrin isomer: [26]hexaphyrin (1.1.1.0.1.0) with an inverted heterocyclic ring. Tetrahedron Letters, 2001, 42, 3391-3394.	1.4	31
24	Coreâ€Modified mesoâ€Aryl Hexaphyrins with an Internal Thiophene Bridge: Structure, Aromaticity, and Photodynamics. Chemistry - A European Journal, 2013, 19, 1886-1890.	3.3	31
25	Figure-eight aromatic core-modified octaphyrins with six meso links: syntheses and structural characterization. Chemical Communications, 2005, , 3343.	4.1	30
26	Photophysical Properties of Core-Modified Expanded Porphyrins: Nature of Aromaticity and Enhancement of Ring Planarity. Journal of Physical Chemistry B, 2008, 112, 6900-6905.	2.6	29
27	Aromatic Core-Modified Twisted Heptaphyrins[1.1.1.1.1.1.0]:â€‰ Syntheses and Structural Characterization. Organic Letters, 2005, 7, 5445-5448.	4.6	25
28	Effect of Meso Aryl Substituents on the Synthesis of Core-Modified Expanded Porphyrins. Organic Letters, 2006, 8, 4847-4850.	4.6	25
29	meso-Aryl Core-Modified Fused Sapphyrins: Syntheses and Structural Diversity. Organic Letters, 2014, 16, 3472-3475.	4.6	24
30	Fused core-modified planar antiaromatic 32Ï€ heptaphyrins: unusual synthesis and structural diversity. Chemical Communications, 2014, 50, 12127-12130.	4.1	23
31	[32]Ï€ Fused Coreâ€Modified Heptaphyrin with MÃ¶bius Aromaticity. Chemistry - A European Journal, 2016, 22, 3942-3946.	3.3	23
32	Oneâ€Pot Synthesis of Coreâ€Modified Rubyrin, Octaphyrin, and Dodecaphyrin: Characterization and Nonlinear Optical Properties. European Journal of Organic Chemistry, 2007, 2007, 4552-4562.	2.4	22
33	26Ï€ Aromatic Core-Modified Hexaphyrins:Â Syntheses, Characterization, and Structural Diversities. Journal of Organic Chemistry, 2007, 72, 1153-1160.	3.2	21
34	In Vitro and In Vivo Demonstration of Human-Ovarian-Cancer Necrosis through a Water-Soluble and Near-Infrared-Absorbing Chlorin. Journal of Medicinal Chemistry, 2018, 61, 5009-5019.	6.4	20
35	Tetrathiaâ€•und Tetraoxarubyrine: aromatische, GerÃ¼stâ€•modifizierte expandierte Porphyrine. Angewandte Chemie, 1997, 109, 2710-2713.	2.0	19
36	One-Pot Synthesis of Core-Modified meso-Aryl Calix[5]phyrin and N-Fused [24]Pentaphyrin. Organic Letters, 2008, 10, 637-640.	4.6	18

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37	One-Pot Synthesis of Oxidized and Reduced Heptaphyrins with Unusual TFA Binding. Organic Letters, 2007, 9, 3355-3357.	4.6	17
38	Near IR absorbing planar aromatic [34]octaphyrins(1.1.0.1.1.0.0.0) containing a quaterthiophene subunit. Chemical Communications, 2007, , 43-45.	4.1	15
39	Smaragdyrinâ€“Azobenzene Conjugates: Syntheses, Structure, and Spectral and Electrochemical Properties. European Journal of Organic Chemistry, 2007, 2007, 191-200.	2.4	15
40	[40]Ï€ Fused and Nonfused Coreâ€Modified Nonaphyrins: Syntheses and Structural Diversity. Chemistry - A European Journal, 2016, 22, 11152-11155.	3.3	14
41	24Ï€ Coreâ€Modified Nonfused Pentaphyrin with MÃ¶bius Aromaticity. Chemistry - A European Journal, 2018, 24, 17997-18002.	3.3	14
42	Phenyleneâ€Bridged Coreâ€Modified Planar Aromatic Octaphyrin: Aromaticity, Photophysical and Anion Receptor Properties. Chemistry - an Asian Journal, 2016, 11, 1447-1453.	3.3	13
43	Photophysical properties of bridged core-modified hexaphyrins: conjugational perturbation of thiophene bridges. Chemical Communications, 2014, 50, 4358-4360.	4.1	11
44	Protonation-Triggered HÃ¼ckel and MÃ¶bius Aromatic Transformations in Nonaromatic Core-Modified [30]Hexaphyrin(2.1.1.2.1.1) and Annulated [28]Hexaphyrin(2.1.1.0.1.1). Organic Letters, 2019, 21, 9637-9641.	4.6	11
45	Expanded porphyrins as third order non-linear optical materials: Some structure-function correlations. Journal of Chemical Sciences, 2008, 120, 137-142.	1.5	9
46	Two non-identical twins in one unit cell: characterization of 34Ï€ aromatic core-modified octaphyrins, their structural isomers and anion bound complexes. Chemical Science, 2019, 10, 5911-5919.	7.4	9
47	Inverted and fused expanded heteroporphyrins. Chemical Society Reviews, 2021, 50, 13268-13320.	38.1	8
48	Heptaphyrins: Expanded porphyrins with seven heterocyclic rings. Journal of Chemical Sciences, 2003, 115, 711-720.	1.5	5
49	Core-modified octaphyrins: Syntheses and anion-binding properties. Journal of Chemical Sciences, 2005, 117, 99-103.	1.5	5
50	Core-modified 48Ï€ and 42Ï€ decaphyrins: syntheses, properties and structures. Organic Chemistry Frontiers, 2019, 6, 3746-3753.	4.5	5
51	Supramolecular Assemblies of Sulfur- and Selenium- Containing Expanded Porphyrins Mediated Through Noncovalent Interactions. Phosphorus, Sulfur and Silicon and the Related Elements, 2005, 180, 845-872.	1.6	4
52	Modified 26 and 28â€‰Ï€ Hexaphyrins with Fivemeso-Links: Optical, Redox, and Structural Properties. Chemistry - an Asian Journal, 2009, 4, 861-869.	3.3	4
53	Dithienothiophene fused 30Ï€ heptaphyrin and 34Ï€ octaphyrins: Syntheses, characterization and spectral properties. Journal of Porphyrins and Phthalocyanines, 2020, 24, 98-104.	0.8	4
54	Dynamic behavior and strategy for the complete 1H and 13C assignments for meso-aryl expanded heptaphyrins. Journal of Porphyrins and Phthalocyanines, 2002, 06, 410-422.	0.8	3

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55	Nonlinear Optical Properties of Porphyrins and Expanded Porphyrins. Handbook of Porphyrin Science, 2014, , 271-366.	0.8	3
56	Meso-mesityl dithia- and diselenarubyrins: existence of planar and inverted forms in solution. Journal of Porphyrins and Phthalocyanines, 2002, 06, 403-409.	0.8	2