Eugen Stulz

List of Publications by Year
in descending order

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75 papers	2,947 citations	186265 28 h-index	175258 52 g-index
90 all docs	90 docs citations	90 times ranked	3335 citing authors

#	Article	IF	Citations
1	Self-Assembled DNA Nanopores That Span Lipid Bilayers. Nano Letters, 2013, 13, 2351-2356.	9.1	267
2	DNA as supramolecular scaffold for functional molecules: progress in DNA nanotechnology. Chemical Society Reviews, 2011, 40, 138-148.	38.1	228
3	Lipidâ€Bilayerâ€Spanning DNA Nanopores with a Bifunctional Porphyrin Anchor. Angewandte Chemie - International Edition, 2013, 52, 12069-12072.	13.8	190
4	DNA as Supramolecular Scaffold for Porphyrin Arrays on the Nanometer Scale. Journal of the American Chemical Society, 2007, 129, 15319-15329.	13.7	152
5	Multistep DNAâ€Templated Reactions for the Synthesis of Functional Sequence Controlled Oligomers. Angewandte Chemie - International Edition, 2010, 49, 7948-7951.	13.8	144
6	Ion Channels Made from a Single Membrane-Spanning DNA Duplex. Nano Letters, 2016, 16, 4665-4669.	9.1	124
7	Duplex Stabilization and Energy Transfer in Zipper Porphyrinâ€“DNA. Angewandte Chemie - International Edition, 2009, 48, 1974-1977.	13.8	106
8	Nanoarchitectonics with Porphyrin Functionalized DNA. Accounts of Chemical Research, 2017, 50, 823-831.	15.6	95
9	EIS-based biosensor for ultra-sensitive detection of TNF-Î± from non-diluted human serum. Biosensors and Bioelectronics, 2014, 61, 274-279.	10.1	89
10	DNA Architectonics: towards the Next Generation of Bioâ€inspired Materials. Chemistry - A European Journal, 2012, 18, 4456-4469.	3.3	82
11	Programmable One-Pot Multistep Organic Synthesis Using DNA Junctions. Journal of the American Chemical Society, 2012, 134, 1446-1449.	13.7	78
12	Sequence-specific synthesis of macromolecules using DNA-templated chemistry. Chemical Communications, 2012, 48, 5614.	4.1	74
13	Selection and Amplification of Mixed-Metal Porphyrin Cages from Dynamic Combinatorial Libraries. Chemistry - A European Journal, 2003, 9, 6039-6048.	3.3	71
14	DNA in a modern world. Chemical Society Reviews, 2011, 40, 5633.	38.1	69
15	Amplification of a cyclic mixed-metalloporphyrin tetramer from a dynamic combinatorial library through orthogonal metal coordinationElectronic supplementary information (ESI) available: Fig. S1Ã¢â‚¬â€œ3: 1H NMR, 1HÃ¢â‚¬â€œ1H COSY and 1HÃ¢â‚¬â€œ1H NOESY spectra of (4,4Ã¢â‚¬Â²-bipy)Ã¢Åâ€š[(Zn-1)2/(Rh-2)2] at http://www.rsc.org/suppdata/cc/b1/b111019p/. Chemical Communications, 2002, , 524-525.	4.1	57
16	A highly sensitive electrochemical genosensor based on Co-porphyrin-labelled DNA. Chemical Communications, 2014, 50, 4196-4199.	4.1	54
17	Construction of Multiporphyrin Arrays Using Ruthenium and Rhodium Coordination to Phosphines. Inorganic Chemistry, 2003, 42, 6564-6574.	4.0	46
18	Fluorescent hydrogel formation from carboxyphenyl-terpyridine. Chemical Communications, 2013, 49, 731-733.	4.1	45

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19	Supramolecular helical porphyrin arrays using DNA as a scaffold. Organic and Biomolecular Chemistry, 2008, 6, 3888.	2.8	41
20	Microfluidic electrochemical multiplex detection of bladder cancer DNA markers. Sensors and Actuators B: Chemical, 2017, 251, 34-39.	7.8	41
21	Phosphine-substituted porphyrins as supramolecular building blocks. New Journal of Chemistry, 2000, 24, 261-264.	2.8	40
22	Introducing structural flexibility into porphyrinâ€“DNA zipper arrays. Organic and Biomolecular Chemistry, 2011, 9, 777-782.	2.8	40
23	Programmed Assembly of Peptide-Functionalized Gold Nanoparticles on DNA Templates. Langmuir, 2010, 26, 13760-13762.	3.5	39
24	Axial Coordination to Metalloporphyrins Leading to Multinuclear Assemblies. , 0, , 1-47.		38
25	Precision Templated Bottom-Up Multiprotein Nanoassembly through Defined Click Chemistry Linkage to DNA. ACS Nano, 2017, 11, 5003-5010.	14.6	35
26	Phosphine and Phosphonite Complexes of a Ruthenium(II) Porphyrin. 1. Synthesis, Structure, and Solution State Studies. Inorganic Chemistry, 2002, 41, 5255-5268.	4.0	34
27	Peptidomimetic bond formation by DNA-templated acyl transfer. Organic and Biomolecular Chemistry, 2011, 9, 1661.	2.8	33
28	Matrix assisted laser desorption/ionisation (MALDI)-TOF mass spectrometry of supramolecular metalloporphyrin assemblies: a surveyâ€Šâ€. Dalton Transactions RSC, 2001, , 604-613.	2.3	28
29	Lipidâ€Bilayerâ€Spanning DNA Nanopores with a Bifunctional Porphyrin Anchor. Angewandte Chemie, 2013, 125, 12291-12294.	2.0	28
30	Efficient NIR light blockage with matrix embedded silver nanoprism thin films for energy saving window coating. Journal of Materials Chemistry C, 2016, 4, 1584-1588.	5.5	28
31	Complexation of Diphenyl(phenylacetenyl)phosphine to Rhodium(III) Tetraphenyl Porphyrins:Â Synthesis and Structural, Spectroscopic, and Thermodynamic Studies. Inorganic Chemistry, 2003, 42, 3086-3096.	4.0	26
32	Phosphine and Phosphonite Complexes of a Ru(II) Porphyrin. 2. Photophysical and Electrochemical Studies. Inorganic Chemistry, 2002, 41, 5269-5275.	4.0	24
33	Approaching single DNA molecule detection with an ultrasensitive electrochemical genosensor based on gold nanoparticles and cobalt-porphyrin DNA conjugates. Chemical Communications, 2018, 54, 11108-11111.	4.1	24
34	Microfluidics-based continuous flow formation of triangular silver nanoprisms with tuneable surface plasmon resonance. Journal of Materials Chemistry C, 2013, 1, 7540.	5.5	23
35	Increased duplex stabilization in porphyrin-LNA zipper arrays with structure dependent exciton coupling. Organic and Biomolecular Chemistry, 2016, 14, 149-157.	2.8	21
36	Synthesis of (5â€²S)-5â€²-C-Alkyl-2â€²-deoxynucleosides. Helvetica Chimica Acta, 2001, 84, 87-105.	1.6	20

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37	Ru(ii) and Rh(iii) porphyrin complexes of primary phosphine-substituted porphyrinsDedicated to the memory of Bhaskar G. Maiya.. New Journal of Chemistry, 2004, 28, 1066.	2.8	20
38	EPR based distance measurement in Cu-porphyrinâ€“DNA. New Journal of Chemistry, 2014, 38, 5254-5259.	2.8	18
39	Easy-to-perform and cost-effective fabrication of continuous-flow reactors and their application for nanomaterials synthesis. New Biotechnology, 2018, 47, 1-7.	4.4	17
40	Directed Formation of DNA Nanoarrays through Orthogonal Self-Assembly. Molecules, 2011, 16, 4912-4922.	3.8	16
41	Selfâ€Assembled Porphyrazine Nucleosides on DNA Templates: Highly Fluorescent Chromophore Arrays and Sizing Forensic Tandem Repeat Sequences. European Journal of Organic Chemistry, 2018, 2018, 5054-5059.	2.4	16
42	ZrIV-tetraphenylporphyrinates as Nuclease Mimics: Structural, Kinetic and Mechanistic Studies on Phosphate Diester Transesterification. Chemistry - A European Journal, 2000, 6, 523-536.	3.3	15
43	Bacteria and nanosilver: the quest for optimal production. Critical Reviews in Biotechnology, 2019, 39, 272-287.	9.0	15
44	Thermal performance and physicochemical stability of silver nanoprism-based nanofluids for direct solar absorption. Solar Energy, 2020, 199, 366-376.	6.1	15
45	Deoxyribonucleic Acid Encoded and Size-Defined Ï€-Stacking of Perylene Diimides. Journal of the American Chemical Society, 2022, 144, 368-376.	13.7	15
46	Porphyrin-Substituted Dinucleotides: Synthesis and Spectroscopy. Chimia, 2005, 59, 101-104.	0.6	14
47	Porphyrin-DNA: A Supramolecular Scaffold for Functional Molecules on the Nanometre Scale. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1533-1538.	1.1	14
48	Construction of DNAâ€“polymer hybrids using intercalation interactions. Chemical Communications, 2014, 50, 1338-1340.	4.1	14
49	A DNA based five-state switch with programmed reversibility. Chemical Communications, 2012, 48, 11088.	4.1	13
50	Cu(ii)â€“porphyrin molecular dynamics as seen in a novel EPR/Stochastic Liouville equation study. Physical Chemistry Chemical Physics, 2013, 15, 10930.	2.8	13
51	Silver nanofluids based broadband solar absorber through tuning nanosilver geometries. Solar Energy, 2020, 208, 515-526.	6.1	12
52	Retaining individualities: the photodynamics of self-ordering porphyrin assemblies. Chemical Communications, 2016, 52, 1938-1941.	4.1	11
53	X-Ray structure and solvolytic activity towards phosphate diesters of a zirconium(IV) complex. Chemical Communications, 1999, , 239-240.	4.1	10
54	Ruthenium(ii) and rhodium(iii) porphyrin phosphine complexes: influence of substitution pattern on structure and electronic properties. New Journal of Chemistry, 2011, 35, 2691.	2.8	10

#	Article	IF	Citations
55	Silver or gold? A comparison of nanoparticle modified electrochemical genosensors based on cobalt porphyrin-DNA. Bioelectrochemistry, 2021, 138, 107723.	4.6	10
56	Tetranucleotides as a scaffold for diporphyrin arrays. Pure and Applied Chemistry, 2006, 78, 2003-2014.	1.9	9
57	The role of isolated active centres in high-performance bioinspired selective oxidation catalysts. Chemical Communications, 2010, 46, 2805.	4.1	9
58	In situ microspectroscopic monitoring within a microfluidic reactor. RSC Advances, 2014, 4, 14569-14572.	3.6	9
59	Synthesis of new building blocks for use in supramolecular DNA architectures. Supramolecular Chemistry, 2010, 22, 103-108.	1.2	8
60	Advancements in the characterisation of oligonucleotides by high performance liquid chromatographyâ€mass spectrometry in 2021: A short review. Analytical Science Advances, 2022, 3, 90-102.	2.8	8
61	Decarbonising heating and hot water using solar thermal collectors coupled with thermal storage: The scale of the challenge. Energy Reports, 2020, 6, 25-34.	5.1	7
62	3D printed reactor-in-a-centrifuge (RIAC): Making flow-synthesis of nanoparticles pump-free and cost-effective. Chemical Engineering Journal, 2021, 425, 130656.	12.7	7
63	Distamycin-NA: A DNA Analog with an Aromatic Heterocyclic Polyamide Backbone. Part 1. Synthesis and structural analysis of monomers and dimers containing the nucleobase uracil. Helvetica Chimica Acta, 1998, 81, 14-34.	1.6	6
64	Porphyrin-modified DNA as Construction Material in Supramolecular Chemistry and Nano-architectonics. Chimia, 2015, 69, 678.	0.6	6
65	A Porphyrin-DNA Chiroptical Molecular Ruler With Base Pair Resolution. Frontiers in Chemistry, 2020, 8, 113.	3.6	5
66	Synthesis and Spectroscopic Properties of Porphyrin-Substituted Uridine and Deoxyuridine. Synlett, 2004, 2004, 1579-1583.	1.8	4
67	Supramolecular hetero-porphyrin SWNT complexes. Journal of Porphyrins and Phthalocyanines, 2011, 15, 257-263.	0.8	3
68	The temperature stability and development of a broadband silver nanofluid for solar thermal applications. Energy Reports, 2021, 7, 87-96.	5.1	2
69	7-(2'-Deoxy-Î±-D-ribofuranosyl)hypoxanthine. Acta Crystallographica Section C: Crystal Structure Communications, 1996, 52, 713-716.	0.4	1
70	Thieme Chemistry Journal Awardees - Where are They Now? Stabilisation of Porphyrins in Tetranucleotide-Bisporphyrin Arrays by Duplex Formation with Peptide Nucleic Acid. Synlett, 2009, 2009, 2913-2918.	1.8	0
71	Membrane-Spanning DNA Nanopores. Biomimetic Chemical Structures for Single-Molecule Research and Nanotechnology. Biophysical Journal, 2014, 106, 632a.	0.5	0
72	Templated Porphyrin Assemblies Using Bio-Inspired Scaffolds â€" Covalent and Non-Covalent Approaches. , 2016, , 31-128.		0

#	Article	IF	Citations
73	Porphyrin encapsulated poly(3- hydroxybutyrate) microspheres in target specific photodynamic therapy for cancer. Frontiers in Bioengineering and Biotechnology, 0, 4, .	4.1	0
74	(Invited) DNA As Supramolecular Template for the Assembly of Porphyrin Arrays. ECS Meeting Abstracts, 2016, , .	0.0	0
75	Bio-inspired Functional DNA Architectures. Nanostructure Science and Technology, 2022, , 259-280.	0.1	0