Sergiu M Gorun

List of Publications by Year
in descending order

46	1,129	331670 21	395702 33
papers	citations	h-index	g-index

48	48	48	1131
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spectroscopy and Electronic Structure of Electron Deficient Zinc Phthalocyanines. Journal of the American Chemical Society, 2003, 125, 7067-7085.	13.7	77
2	Re-engineering Enzyme-Model Active Sites:â€‰ Reversible Binding of Dioxygen at Ambient Conditions by a Bioinspired Copper Complex. Journal of the American Chemical Society, 2000, 122, 3556-3557.	13.7	75
3	Synthesis and Structure of a Biconcave Cobalt Perfluorophthalocyanine and Its Catalysis of Novel Oxidative Carbonâ€“Phosphorus Bonds Formation by Using Air We thank Brown University and the Salomon Foundation for partial support of this work and Dr. Tun-Li Shen for the mass spectrometry data.. Angewandte Chemie - International Edition, 2002, 41, 750.	13.8	58
4	Singlet oxygen-based electrosensing by molecular photosensitizers. Nature Communications, 2017, 8, .	12.8	58
5	Electrochromic Switching of Evaporated Thin Films of Bulky, Electronic Deficient Metallo-Phthalocyanines. Journal of Physical Chemistry C, 2011, 115, 8759-8767.	3.1	52
6	Fluorine Encapsulation and Stabilization of Biologically Relevant Low-Valence Copper-Oxo Cores. Inorganic Chemistry, 2001, 40, 4812-4813.	4.0	47
7	Introduction of Bulky Perfluoroalkyl Groups at the Periphery of Zinc Perfluorophthalocyanine: Chemical, Structural, Electronic, and Preliminary Photophysical and Biological Effects The financial assistance of Brown University start-up funds, Salomon Foundation, the US Department of Energy (ER) Tj ETQq1 1 0.784314 rgBT /Ov purchased with assistance from NSF (CHE-8206423) and NIH (RR-06462). M. Beggs, J. Collosso, H. E. Easley, T. L. Shen. Angewandte Chemie - International Edition, 2002, 41, 747.	13.8	46
8	Effects of Peripheral Substituents on the Electronic Structure and Properties of Unligated and Ligated Metal Phthalocyanines, Metal = Fe, Co, Zn. Journal of Chemical Theory and Computation, 2005, 1, 1201-1210.	5.3	46
9	Rational design of a reactive yet stable organic-based photocatalyst. Dalton Transactions, 2009, , 1098.	3.3	45
10	Synthesis and Characterization of Fluorinated Tris(pyrazolyl)borate Complexes. Observation of an (Î·5-Pyrazole)â^'K+ Interaction in the Solid State. Inorganic Chemistry, 2001, 40, 667-671.	4.0	42
11	Enhanced Acidity, Photophysical Properties and Liposome Binding of Perfluoroalkylated Phthalocyanines Lacking C-H Bonds. Photochemistry and Photobiology, 2006, 82, 593.	2.5	41
12	Fluoroalkyl phthalocyanines: Bioinspired catalytic materials. Journal of Porphyrins and Phthalocyanines, 2018, 22, 371-397.	0.8	40
13	Synthesis, X-ray Structure, Magnetic Resonance, and DFT Analysis of a Soluble Copper(II) Phthalocyanine Lacking Câ^'H Bonds. Inorganic Chemistry, 2010, 49, 8779-8789.	4.0	38
14	Evaluation of Photodynamic Therapy Agents through Transient Grating Measurements. Journal of Physical Chemistry A, 2003, 107, 5138-5143.	2.5	36
15	Synthesis and structural characterization of non-planar perfluoro phthalonitriles. Journal of Fluorine Chemistry, 1998, 91, 37-40.	1.7	35
16	Supramolecular Mnâ^'Ca Aggregates as Models for the Photosynthetic Water Oxidation Complex. Inorganic Chemistry, 1998, 37, 836-837.	4.0	30
17	Activation of a Carbon-Oxygen Bond of Benzofuran by Precoordination of Manganese to the Carbocyclic Ring: A Model for Hydrodeoxygenation. Angewandte Chemie - International Edition, 1999, 38, 2206-2208.	13.8	30
18	Dome-distortion and fluorine-lined channels: synthesis, and molecular and crystal structure of a metal- and Câ€“H bonds-free fluorophthalocyanine. Chemical Communications, 2003, , 1576-1577.	4.1	27

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19	Time-resolved singlet oxygen luminescence detection under photodynamic therapy relevant conditions: comparison ofex vivoapplication of two photosensitizer formulations. Journal of Biomedical Optics, 2012, 17, 115005.	2.6	24
20	Visible light induced photosensitized degradation of Acid Orange 7 in the suspension of bentonite intercalated with perfluoroalkyl perfluoro phthalocyanine zinc complex. Applied Catalysis B: Environmental, 2012, 125, 35-40.	20.2	23
21	Synthesis and molecular structures and oxidation catalysis of mixed alkyl, fluoroalkyl pyrazolylborate metal complexes. Inorganica Chimica Acta, 2000, 297, 383-388.	2.4	22
22	Optimized Photoelectrochemical Detection of Essential Drugs Bearing Phenolic Groups. Analytical Chemistry, 2019, 91, 9962-9969.	6.5	21
23	Copper-Based Bioinspired Oxygenation and Glyoxalase-Like Reactivity. Journal of the American Chemical Society, 2002, 124, 1564-1565.	13.7	20
24	Effects of Tris(pyrazolyl)borato Ligand Substituents on Dioxygen Activation and Stabilization by Copper Compounds. Inorganic Chemistry, 2006, 45, 3594-3601.	4.0	19
25	Chemically robust fluoroalkyl phthalocyanineâ€“oligonucleotide bioconjugates and their GRP78 oncogene photocleavage activity. Chemical Communications, 2014, 50, 6309-6311.	4.1	17
26	Structures and Redox Characteristics of Electron-Deficient Vanadyl Phthalocyanines. Inorganic Chemistry, 2011, 50, 4086-4091.	4.0	15
27	Synthesis and Photophysical and Photocatalytic Properties of a Highly Fluorinated and Durable Phthalocyanineâ€“Peptide Bioconjugate for Potential Theranostic Applications. Inorganic Chemistry, 2017, 56, 7210-7216.	4.0	14
28	Photoreduction and light-induced triplet-state formation in a single-site fluoroalkylated zinc phthalocyanine. Dalton Transactions, 2014, 43, 14942-14948.	3.3	13
29	Long-range solid-state ordering and high geometric distortions induced in phthalocyanines by small fluoroalkyl groups. Dalton Transactions, 2009, , 1095-1097.	3.3	12
30	Mixed Alkylâ€Perfluoroalkyl Silver Scorpionates: Synthesis, Xâ€ray Structures and Stabilizing Substituent Effects. European Journal of Inorganic Chemistry, 2016, 2016, 2648-2657.	2.0	10
31	Nanobody-Based Immunosensor Detection Enhanced by Photocatalytic-Electrochemical Redox Cycling. Analytical Chemistry, 2021, 93, 13606-13614.	6.5	10
32	STRUCTURE AND PROPERTIES OF PERFLUOROALKYLATED PHTHALOCYANINES: A THEORETICAL STUDY. Journal of Theoretical and Computational Chemistry, 2008, 07, 541-563.	1.8	9
33	Photoreactive Superhydrophobic Organicâ€“Inorganic Hybrid Materials Composed of Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Ove Materials, 2019, 1, 1514-1523.	4.4	9
34	Enhanced Photoelectrochemical Detection of an Analyte Triggered by Its Concentration by a Singlet Oxygen-Generating Fluoro Photosensitizer. ACS Sensors, 2020, 5, 3501-3509.	7.8	9
35	Correlation between the Fluorination Degree of Perfluorinated Zinc Phthalocyanines, Their Singlet Oxygen Generation Ability, and Their Photoelectrochemical Response for Phenol Sensing. Analytical Chemistry, 2022, 94, 5221-5230.	6.5	9
36	Electron Paramagnetic Resonance and DFT Analysis of the Effects of Bulky Perfluoroalkyl Substituents on a Vanadyl Perfluoro Phthalocyanine. Zeitschrift Fur Physikalische Chemie, 2017, 231, 887-903.	2.8	8

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37	The influence of intermolecular coupling on electron and ion transport in differently substituted phthalocyanine thin films as electrochromic materials: a chemistry application of the Goldilocks principle. Physical Chemistry Chemical Physics, 2020, 22, 7699-7709.	2.8	7
38	Synthesis and molecular and solid state structural characterization of mixed CH3â€“CF3 and CH3â€“C2F5 fluoroalkyl pyrazoles and a new, ligand. Inorganica Chimica Acta, 2009, 362, 4639-4645.	2.4	6
39	An improved synthesis of 3,6-anhydro-d-glucal and a study of its unusual chemical reactivity. Carbohydrate Research, 2014, 391, 106-111.	2.3	4
40	Electron and Ion Transport in Mixed Electrochromic Thin Films of Perfluorinated Phthalocyanines. Electrochimica Acta, 2021, 377, 138065.	5.2	3
41	Group III perfluoroalkyl perfluoro phthalocyanines. Journal of Porphyrins and Phthalocyanines, 2016, 20, 1401-1408.	0.8	2
42	Synthesis and X-ray structure of a fluorinated 1,1-dialkoxy-3-iminoisoindoline acetal, an elusive phthalocyanine precursor. Tetrahedron, 2018, 74, 3697-3700.	1.9	1
43	Electronic, molecular, and solid-state structural effects of strong electron withdrawing and donating groups in functionalized fluorophthalonitriles. Journal of Porphyrins and Phthalocyanines, 2021, 25, 224-235.	0.8	1
44	Activation of a Carbonâ€“Oxygen Bond of Benzofuran by Precoordination of Manganese to the Carbocyclic Ring: A Model for Hydrodeoxygenation. , 1999, 38, 2206.		1
45	The Role of Singlet Oxygen, Superoxide, Hydroxide, and Hydrogen Peroxide in the Photoelectrochemical Response of Phenols at a Supported Highly Fluorinated Zinc Phthalocyanine. ChemElectroChem, 2022, 9, .	3.4	1
46	Reengineering of Organic-Based Metal Active Sites for Oxidations and Oxygenations. ACS Symposium Series, 2004, , 407-422.	0.5	0