Sergii I Shylin

List of Publications by Year
in descending order

51 papers	2,568 citations	567281 15 h-index	243625 44 g-index
51 all docs	51 docs citations	51 times ranked	3097 citing authors

#	Article	IF	Citations
1	1D iron(<scp>ii</scp>)-1,2,4-triazolic chains with spin crossover assembled from discrete trinuclear complexes. Dalton Transactions, 2022, 51, 2364-2369.	3.3	0
2	Two-Step Spin Crossover in Hofmann-Type Coordination Polymers [Fe(2-phenylpyrazine)₂{M(CN)₂}₂] (M = Ag, Au). Inorganic Chemistry, 2022, 61, 2093-2104.	4.0	13
3	High-Temperature Superconductivity in Hydrides: Experimental Evidence and Details. Journal of Superconductivity and Novel Magnetism, 2022, 35, 965-977.	1.8	32
4	Fourâ€Step Spin Crossover in a New Cyanoâ€Bridged Ironâ€Silver Coordination Polymer. Chemistry - A European Journal, 2022, 28, .	3.3	3
5	Water Oxidation by Pentapyridyl Base Metal Complexes? A Case Study. Inorganic Chemistry, 2022, 61, 9104-9118.	4.0	5
6	Electronic and geometric structure effects on one-electron oxidation of first-row transition metals in the same ligand framework. Dalton Transactions, 2021, 50, 660-674.	3.3	3
7	Spin crossover in iron(<scp>ii</scp>) Hofmann clathrates analogues with 1,2,3-triazole. Dalton Transactions, 2021, 50, 9250-9258.	3.3	11
8	Expanding manganese(<scp>iv</scp>) aqueous chemistry: unusually stable water-soluble hexahydrazide clathrochelate complexes. Chemical Communications, 2021, 57, 11060-11063.	4.1	9
9	Understanding the Stability and Recrystallization Behavior of Amorphous Zinc Phosphate. Journal of Physical Chemistry C, 2021, 125, 2636-2647.	3.1	6
10	Hybrid compound based on diethylenetriaminecopper(<scp>ii</scp>) cations and scarce V-monosubstituted Î²-octamolybdate as water oxidation catalyst. RSC Advances, 2021, 11, 32119-32125.	3.6	0
11	Facile one-pot synthesis of hybrid compounds based on decavanadate showing water oxidation activity. Inorganic Chemistry Communication, 2020, 119, 108111.	3.9	2
12	Spin transition in a ferrous chloride complex supported by a pentapyridine ligand. Chemical Communications, 2020, 56, 2703-2706.	4.1	3
13	Hofmann-Like Frameworks Fe(2-methylpyrazine)_n[M(CN)₂]₂ (M = Au, Ag): Spin-Crossover Defined by the Precious Metal. Inorganic Chemistry, 2020, 59, 6541-6549.	4.0	12
14	Pressure-Induced Semiconductor-Semimetal Transition in Rb0.8Fe1.6S2. JETP Letters, 2019, 109, 536-540.	1.4	2
15	Pyridazineâ€Supported Polymeric Cyanometallates with Spin Transitions. European Journal of Inorganic Chemistry, 2019, 2019, 4532-4537.	2.0	14
16	Beyond artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 422-438.	3.2	0
17	Biological approaches to artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 66-83.	3.2	0
18	Synthetic approaches to artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 242-281.	3.2	5

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19	Copper-containing hybrid compounds based on extremely rare [V₂Mo₆O₂₆]^{6â€“} POM as water oxidation catalysts. Inorganic Chemistry Frontiers, 2019, 6, 1813-1823.	6.0	13
20	Photoinduced hole transfer from tris(bipyridine)ruthenium dye to a high-valent iron-based water oxidation catalyst. Faraday Discussions, 2019, 215, 162-174.	3.2	15
21	Efficient visible light-driven water oxidation catalysed by an iron(<scp>iv</scp>) clathrochelate complex. Chemical Communications, 2019, 55, 3335-3338.	4.1	33
22	Longâ€Lasting Nonâ€hydrogenated Dark Titanium Dioxide: Medium Vacuum Anneal for Enhanced Visible Activity of Modified Multiphase Photocatalysts. ChemCatChem, 2018, 10, 2949-2954.	3.7	17
23	Interplay Between Superconductivity and Magnetism in Cu-Doped FeSe Under Pressure. Journal of Superconductivity and Novel Magnetism, 2018, 31, 763-769.	1.8	6
24	From Single Molecules to Nanostructured Functional Materials: Formation of a Magnetic Foam Catalyzed by Pd@Fe_xO Heterodimers. ACS Applied Nano Materials, 2018, 1, 1050-1057.	5.0	5
25	The surface chemistry of iron oxide nanocrystals: surface reduction of Î³-Fe₂O₃ to Fe₃O₄ by redox-active catechol surface ligands. Journal of Materials Chemistry C, 2018, 6, 326-333.	5.5	19
26	Iron Oxide Superparticles with Enhanced MRI Performance by Solution Phase Epitaxial Growth. Chemistry of Materials, 2018, 30, 4277-4288.	6.7	10
27	Indefinitely stable iron(IV) cage complexes formed in water by air oxidation. Nature Communications, 2017, 8, 14099.	12.8	48
28	Spinâ€Stateâ€Dependent Redoxâ€Catalytic Activity of a Switchable Iron(II) Complex. European Journal of Inorganic Chemistry, 2017, 2017, 3125-3131.	2.0	8
29	Pd@Fe₂O₃ Superparticles with Enhanced Peroxidase Activity by Solution Phase Epitaxial Growth. Chemistry of Materials, 2017, 29, 1134-1146.	6.7	58
30	Pressure-induced magnetic collapse and metallization of TlFe1.6Se2. Physical Review B, 2017, 96, .	3.2	5
31	Coâ€“Co and Coâ€“Fe cyano-bridged pentanuclear clusters based on a methylpyrazinyl-diamine tetradentate ligand: spin crossover and metal substitution effects. CrystEngComm, 2017, 19, 7079-7082.	2.6	2
32	Pressure effect on superconductivity in FeSe_{0.5}Te_{0.5}. Physica Status Solidi (B): Basic Research, 2017, 254, 1600161.	1.5	7
33	Spin Crossover in Fe(II)â€“M(II) Cyanoheterobimetallic Frameworks (M = Ni, Pd, Pt) with 2-Substituted Pyrazines. Inorganic Chemistry, 2016, 55, 4906-4914.	4.0	58
34	High temperature spin crossover in [Fe(pyrazine){Ag(CN)₂}₂] and its solvate. New Journal of Chemistry, 2016, 40, 9012-9016.	2.8	25
35	Cooperative Highâ€Temperature Spin Crossover Accompanied by a Highly Anisotropic Structural Distortion. European Journal of Inorganic Chemistry, 2016, 2016, 3191-3195.	2.0	49
36	Solvent-dependent SCO Behavior of Dinuclear Iron(II) Complexes with a 1,3,4-Thiadiazole Bridging Ligand. Inorganic Chemistry, 2016, 55, 6414-6419.	4.0	25

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37	MÃ¶ssbauer spectroscopy and X-ray fluorescence studies on sediments from the methanic zone of the Helgoland mud area, North Sea. Hyperfine Interactions, 2016, 237, 1.	0.5	0
38	Correlation Between T c and Hyperfine Parameters of Fe in Layered Chalcogenide Superconductors. Journal of Superconductivity and Novel Magnetism, 2016, 29, 573-576.	1.8	4
39	Enantioselective Guest Effect on the Spin State of a Chiral Coordination Framework. Chemistry - A European Journal, 2015, 21, 18076-18079.	3.3	23
40	Distinct microbial populations are tightly linked to the profile of dissolved iron in the methanic sediments of the Helgoland mud area, North Sea. Frontiers in Microbiology, 2015, 06, 365.	3.5	72
41	Crystal structure of high-spin tetraaquabis(2-chloropyrazine-Î¹ºN4)iron(II) bis(4-methylbenzenesulfonate). Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 776-778.	0.5	0
42	Synthesis of Nanocrystals and Particle Size Effects Studies on the Thermally Induced Spin Transition of the Model Spin Crossover Compound [Fe(phen)₂(NCS)₂]. Inorganic Chemistry, 2015, 54, 7906-7914.	4.0	26
43	Intercalation effect on hyperfine parameters of Fe in FeSe superconductor with T _c = 42â€šK. Europhysics Letters, 2015, 109, 67004.	2.0	10
44	Chiral spin crossover nanoparticles and gels with switchable circular dichroism. Journal of Materials Chemistry C, 2015, 3, 4737-4741.	5.5	41
45	Crystal structure of the co-crystalfac-triaquatris(thiocyanato-Î¹ºN)iron(III)â€“2,3-dimethylpyrazine (1/3). Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 374-376.	0.5	0
46	Water-soluble and redox-responsive hyperbranched polyether copolymers based on ferrocenyl glycidyl ether. Polymer Chemistry, 2015, 6, 7112-7118.	3.9	11
47	Conventional superconductivity at 203 kelvin at high pressures in the sulfur hydride system. Nature, 2015, 525, 73-76.	27.8	1,835
48	Phase Separation in RbxFe2â^'ySe2 Probed by Non-stoichiometry and Cu Doping. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1315-1319.	1.8	8
49	Iron (II) isothiocyanate complexes with substituted pyrazines: Experimental and theoretical views on their electronic structure. Polyhedron, 2015, 87, 147-155.	2.2	10
50	Pyridinium bis(pyridine-Î¹ºN)tetrakis(thiocyanato-Î¹ºN)ferrate(III). Acta Crystallographica Section E: Structure Reports Online, 2013, 69, m298-m299.	0.2	1
51	Pyridinium bis(pyridine-Î¹ºN)tetrakis(thiocyanato-Î¹ºN)ferrate(III)â€“pyrazine-2-carbonitrileâ€“pyridine (1/4/1). Acta Crystallographica Section E: Structure Reports Online, 2013, 69, m280-m280.	0.2	4