

# Sebastian A Stoian

## List of Publications by Year in descending order

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45  
papers

2,065  
citations

361413

20  
h-index

233421

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g-index

46  
all docs

46  
docs citations

46  
times ranked

3650  
citing authors

#	ARTICLE	IF	CITATIONS
1	EPR Evidence for Co(IV) Species Produced During Water Oxidation at Neutral pH. <i>Journal of the American Chemical Society</i> , 2010, 132, 6882-6883.	13.7	488
2	Properties of Prussian Blue Materials Manifested in Molecular Complexes: Observation of Cyanide Linkage Isomerism and Spin-Crossover Behavior in Pentanuclear Cyanide Clusters. <i>Journal of the American Chemical Society</i> , 2007, 129, 6104-6116.	13.7	204
3	Hangman Corroles: Efficient Synthesis and Oxygen Reaction Chemistry. <i>Journal of the American Chemical Society</i> , 2011, 133, 131-140.	13.7	197
4	Investigation of magnetic properties and electronic structure of layered-structure borides Al T 2 B 2 ( ) Tj ETQq0 0 0,rgBT /Overlock 10 TF	2.9	98
5	NO Disproportionation at a Mononuclear Site-Isolated Fe <sup>2+</sup> Center in Fe <sup>2+</sup> -MOF-5. <i>Journal of the American Chemical Society</i> , 2015, 137, 7495-7501.	13.7	96
6	Mössbauer, Electron Paramagnetic Resonance, and Crystallographic Characterization of a High-Spin Fe(I) Diketimate Complex with Orbital Degeneracy. <i>Inorganic Chemistry</i> , 2005, 44, 4915-4922.	4.0	95
7	Ligand Reactivity in Diarylamido/Bis(Phosphine) PNP Complexes of Mn(CO) <sub>3</sub> and Re(CO) <sub>3</sub> . <i>Inorganic Chemistry</i> , 2009, 48, 9214-9221.	4.0	93
8	Mössbauer and Computational Study of an N <sub>2</sub> -Bridged Diiron Diketimate Complex: Parallel Alignment of the Iron Spins by Direct Antiferromagnetic Exchange with Activated Dinitrogen. <i>Journal of the American Chemical Society</i> , 2006, 128, 10181-10192.	13.7	77
9	Cyanobacterial Aldehyde Deformylase Oxygenation of Aldehydes Yields <i>n</i> -1 Aldehydes and Alcohols in Addition to Alkanes. <i>ACS Catalysis</i> , 2013, 3, 2228-2238.	11.2	58
10	Mössbauer, Electron Paramagnetic Resonance, and Magnetic Susceptibility Studies on Members of a New Family of Cyano-Bridged 3d-4f Complexes. Demonstration of Anisotropic Exchange in a Fe <sup>2+</sup> Gd Complex. <i>Inorganic Chemistry</i> , 2010, 49, 3387-3401.	4.0	54
11	Xanthene-Modified and Hangman Iron Corroles. <i>Inorganic Chemistry</i> , 2011, 50, 1368-1377.	4.0	52
12	Zr-Based MOFs for oxidative desulfurization: what matters?. <i>Green Chemistry</i> , 2020, 22, 6351-6356.	9.0	52
13	Spin Crossover in Fe(II) Complexes with N <sub>4</sub> S <sub>2</sub> Coordination. <i>Inorganic Chemistry</i> , 2016, 55, 5904-5913.	4.0	49
14	Synthesis and Characterization of a Stable High-Valent Cobalt Carbene Complex. <i>Journal of the American Chemical Society</i> , 2016, 138, 5531-5534.	13.7	43
15	Spectroscopic and Theoretical Investigation of a Complex with an [O <sup>•</sup> FeV <sup>•</sup> O <sup>•</sup> FeV <sup>•</sup> O] Core Related to Methane Monooxygenase Intermediate Q. <i>Journal of the American Chemical Society</i> , 2014, 136, 1545-1558.	13.7	35
16	Radical Dimerization in a Plastic Organic Crystal Leads to Structural and Magnetic Bistability with Wide Thermal Hysteresis. <i>Journal of the American Chemical Society</i> , 2019, 141, 17989-17994.	13.7	31
17	Mössbauer, Electron Paramagnetic Resonance, and Theoretical Study of a High-Spin, Four-Coordinate Fe(II) Diketimate Complex. <i>Inorganic Chemistry</i> , 2008, 47, 8687-8695.	4.0	27
18	A High-Spin Organometallic Fe <sup>2+</sup> S Compound: Structural and Mössbauer Spectroscopic Studies of [Phenyltris((tert-butylthio)methyl)borate]Fe(Me). <i>Inorganic Chemistry</i> , 2009, 48, 8317-8324.	4.0	26

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19	Advanced Paramagnetic Resonance Studies on Manganese and Iron Corroles with a Formal d <sup>4</sup> Electron Count. <i>Inorganic Chemistry</i> , 2020, 59, 1075-1090.	4.0	24
20	Dinuclear Metallacycles with Single M–X Bridges (X = Cl, Br; M = Fe(II)). <i>Inorganic Chemistry</i> , 2017, 56, 2884-2901.	4.0	20
21	Chemical reaction within a compact non-porous crystal containing molecular clusters without the loss of crystallinity. <i>Chemical Science</i> , 2017, 8, 5356-5361.	7.4	20
22	Catalytic Nitrene Homocoupling by an Iron(II) Bis(alkoxide) Complex: Bulking Up the Alkoxide Enables a Wider Range of Substrates and Provides Insight into the Reaction Mechanism. <i>Inorganic Chemistry</i> , 2018, 57, 9425-9438.	4.0	20
23	Valence tautomerism in a cobalt-verdazyl coordination compound. <i>Chemical Communications</i> , 2020, 56, 4400-4403.	4.1	18
24	Heteroleptic Fe(II) Complexes with N <sub>4</sub> S <sub>2</sub> Coordination as a Platform for Designing Spin-Crossover Materials. <i>Inorganic Chemistry</i> , 2017, 56, 11096-11103.	4.0	17
25	Syntheses, Structures and Reactivity of Terminal Phosphido Complexes of Iron(II) Supported by a $\eta^2$ -Diketiminato Ligand. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4298-4308.	2.0	17
26	Intercalation of Coordinatively Unsaturated Fe <sup>III</sup> Ion within Interpenetrated Metal–Organic Framework MOF-5. <i>Chemistry - A European Journal</i> , 2016, 22, 7711-7715.	3.3	15
27	Synthetic, Structural, and Spectroscopic Characterization of a Novel Family of High-Spin Iron(II) [ $\eta^2$ -Diketiminato](phosphanylphosphido) Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 11030-11042.	4.0	14
28	Hyperfine interactions and electron distribution in FeII and FeI models for the active site of the [FeFe]-hydrogenases: Mössbauer spectroscopy studies of low-spin FeI. <i>Journal of Biological Inorganic Chemistry</i> , 2013, 18, 609-622.	2.6	12
29	Solid State Collapse of a High-Spin Square-Planar Fe(II) Complex, Solution Phase Dynamics, and Electronic Structure Characterization of an Fe(II) <sub>2</sub> Dimer. <i>Inorganic Chemistry</i> , 2016, 55, 5191-5200.	4.0	12
30	Evidence of Ferrimagnetism in Fe-Doped CdSe Quantum Dots. <i>Chemistry of Materials</i> , 2018, 30, 8446-8456.	6.7	11
31	Insights into Molecular Magnetism in Metal–Metal Bonded Systems as Revealed by a Spectroscopic and Computational Analysis of Diiron Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 18141-18155.	4.0	11
32	Transition metal-mediated reductive coupling of diazoesters. <i>Chemical Communications</i> , 2019, 55, 8458-8461.	4.1	10
33	Probing Fe–V Bonding in a C <sub>3</sub> -Symmetric Heterobimetallic Complex. <i>Inorganic Chemistry</i> , 2018, 57, 5870-5878.	4.0	9
34	Square-planar Co(III) in {O <sub>4</sub> } coordination: large ZFS and reactivity with ROS. <i>Chemical Communications</i> , 2018, 54, 12045-12048.	4.1	9
35	Model Dimeric Manganese(IV) Complexes Featuring Terminal Tris-hydroxotetraazaadamantane and Various Bridging Ligands. <i>Inorganic Chemistry</i> , 2020, 59, 10768-10784.	4.0	8
36	Structural, Spectroscopic, and Theoretical Investigation of a T-Shaped [Fe <sub>3</sub> ( $\mu_3$ -O)] Cluster. <i>Inorganic Chemistry</i> , 2017, 56, 10861-10874.	4.0	6

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37	Observation of current rectification by the new bimetallic iron( <sup>iii</sup> ) hydrophobe [FeII <sub>2</sub> (L <sup>N4O6</sup> )] on Au  LB-molecule   Au devices. Dalton Transactions, 2018, 47, 14352-14361.	3.3	6
38	Ba <sub>3</sub> Fe <sub>1.56</sub> Ir <sub>1.44</sub> O <sub>9</sub> : A Polar Semiconducting Triple Perovskite with Near Room Temperature Magnetic Ordering. Inorganic Chemistry, 2018, 57, 7362-7371.	4.0	6
39	Synthesis and characterization of novel polyethylene oxide“dinuclear Cu(II) complex electrospun nanofibers. Materials Letters, 2019, 238, 58-61.	2.6	6
40	Light-induced magnetization changes in aggregated and isolated cobalt ferrite nanoparticles. Journal of Applied Physics, 2018, 124, .	2.5	5
41	Directed synthesis and magnetic properties of a hexanuclear ferric cluster. Polyhedron, 2018, 151, 446-451.	2.2	4
42	Synthesis and electronic structure of a mononuclear copper(II) complex supported by tris(2-hydroxyliminopropyl)amine. Polyhedron, 2020, 177, 114306.	2.2	3
43	Homoleptic mono-, di-, and tetra-iron complexes featuring phosphido ligands: a synthetic, structural, and spectroscopic study. Dalton Transactions, 2020, 49, 10091-10103.	3.3	3
44	Electronic Structure of Tetrahedral, <i>S</i> = 2, [Fe{(EP) <sup>i</sup> Pr <sub>2</sub> }) <sub>2</sub> N <sub>2</sub> ], E = S, Se, Complexes: Investigation by High-Frequency and -Field Electron Paramagnetic Resonance, <sup>57</sup> Fe Mössbauer Spectroscopy, and Quantum Chemical Studies. Inorganic Chemistry, 2021, 60, 10990-11005.	4.0	3
45	Evolution of Bonding and Magnetism <i>via</i> Changes in Valence Electron Count in CuFe <sub>2</sub> “x”Co <sub>x</sub> Ge <sub>2</sub> . Inorganic Chemistry, 2022, 61, 4257-4269.	4.0	1