Serge I Gorelsky

List of Publications by Year
in descending order

57	6,916	109321	123424
papers	citations	35 h-index	61 g-index

68	68	68	6194
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis of the Concerted Metalation-Deprotonation Mechanism in Palladium-Catalyzed Direct Arylation Across a Broad Range of Aromatic Substrates. Journal of the American Chemical Society, 2008, 130, 10848-10849.	13.7	900
2	Rhodium(III)-Catalyzed Heterocycle Synthesis Using an Internal Oxidant: Improved Reactivity and Mechanistic Studies. Journal of the American Chemical Society, 2011, 133, 6449-6457.	13.7	865
3	Analysis of the Palladium-Catalyzed (Aromatic)Câ€“H Bond Metalationâ€“Deprotonation Mechanism Spanning the Entire Spectrum of Arenes. Journal of Organic Chemistry, 2012, 77, 658-668.	3.2	380
4	High-Yielding Palladium-Catalyzed Intramolecular Alkane Arylation:â€‰ Reaction Development and Mechanistic Studies. Journal of the American Chemical Society, 2007, 129, 14570-14571.	13.7	369
5	Mechanism of N2O Reduction by the Î¼4-S Tetranuclear CuZCluster of Nitrous Oxide Reductase. Journal of the American Chemical Society, 2006, 128, 278-290.	13.7	322
6	Modulating Reactivity and Diverting Selectivity in Palladium-Catalyzed Heteroaromatic Direct Arylation Through the Use of a Chloride Activating/Blocking Group. Journal of Organic Chemistry, 2010, 75, 1047-1060.	3.2	299
7	Regioselective Oxidative Arylation of Indoles Bearing N-Alkyl Protecting Groups: Dual Câˆ’H Functionalization via a Concerted Metalationâˆ’Deprotonation Mechanism. Journal of the American Chemical Society, 2010, 132, 14676-14681.	13.7	277
8	An Organometallic Sandwich Lanthanide Single-Ion Magnet with an Unusual Multiple Relaxation Mechanism. Journal of the American Chemical Society, 2011, 133, 19286-19289.	13.7	257
9	Origins of regioselectivity of the palladium-catalyzed (aromatic)CH bond metalationâ€“deprotonation. Coordination Chemistry Reviews, 2013, 257, 153-164.	18.8	257
10	Investigation of the Mechanism of C(sp³)âˆ’H Bond Cleavage in Pd(0)-Catalyzed Intramolecular Alkane Arylation Adjacent to Amides and Sulfonamides. Journal of the American Chemical Society, 2010, 132, 10692-10705.	13.7	255
11	Mechanistic Analysis of Azine N-Oxide Direct Arylation: Evidence for a Critical Role of Acetate in the Pd(OAc)₂ Precatalyst. Journal of Organic Chemistry, 2010, 75, 8180-8189.	3.2	203
12	Importance of Out-of-State Spinâ€“Orbit Coupling for Slow Magnetic Relaxation in Mononuclear Fe^{II} Complexes. Journal of the American Chemical Society, 2011, 133, 15806-15809.	13.7	202
13	Influence of the Ligand Field on Slow Magnetization Relaxation versus Spin Crossover in Mononuclear Cobalt Complexes. Angewandte Chemie - International Edition, 2013, 52, 11290-11293.	13.8	192
14	An Organometallic Building Block Approach To Produce a Multidecker 4f Single-Molecule Magnet. Journal of the American Chemical Society, 2013, 135, 3502-3510.	13.7	189
15	Spectroscopic and DFT Investigation of [M{HB(3,5-iPr2pz)3}(SC6F5)] (M = Mn, Fe, Co, Ni, Cu, and Zn) Model Complexes:Â Periodic Trends in Metalâˆ’Thiolate Bonding. Inorganic Chemistry, 2005, 44, 4947-4960.	4.0	175
16	N2O Reduction by theÎ¼4-Sulfide-Bridged Tetranuclear CuZ Cluster Active Site. Angewandte Chemie - International Edition, 2004, 43, 4132-4140.	13.8	112
17	Metalâ€“thiolate bonds in bioinorganic chemistry. Journal of Computational Chemistry, 2006, 27, 1415-1428.	3.3	112
18	Identifying Homocouplings as Critical Side Reactions in Direct Arylation Polycondensation. ACS Macro Letters, 2014, 3, 819-823.	4.8	111

#	Article	IF	Citations
19	Activation of N₂O Reduction by the Fully Reduced Î¼4₄-Sulfide Bridged Tetranuclear Cu_Z Cluster in Nitrous Oxide Reductase. Journal of the American Chemical Society, 2003, 125, 15708-15709.	13.7	106
20	Palladiumâ€Catalyzed Carbocyclization of Alkynyl Ketones Proceeding through a Carbopalladation Pathway. Angewandte Chemie - International Edition, 2011, 50, 2342-2345.	13.8	85
21	How Innocent are Potentially Redox Non-Innocent Ligands? Electronic Structure and Metal Oxidation States in Iron-PNN Complexes as a Representative Case Study. Inorganic Chemistry, 2015, 54, 4909-4926.	4.0	76
22	Slow Magnetic Relaxation in Uranium(III) and Neodymium(III) Cyclooctatetraenyl Complexes. Organometallics, 2015, 34, 1415-1418.	2.3	76
23	Extended charge decomposition analysis and its application for the investigation of electronic relaxation. Theoretical Chemistry Accounts, 2008, 119, 57-65.	1.4	72
24	Perfluoroalkyl Cobalt(III) Fluoride and Bis(perfluoroalkyl) Complexes: Catalytic Fluorination and Selective Difluorocarbene Formation. Journal of the American Chemical Society, 2015, 137, 16064-16073.	13.7	63
25	Tuning the Regioselectivity of Palladium-Catalyzed Direct Arylation of Azoles by Metal Coordination. Organometallics, 2012, 31, 794-797.	2.3	61
26	Complexes with a Single Metalâ€“Metal Bond as a Sensitive Probe of Quality of Exchange-Correlation Functionals. Journal of Chemical Theory and Computation, 2012, 8, 908-914.	5.3	54
27	Spectroscopic, Computational, and Kinetic Studies of the Î¼4-Sulfide-Bridged Tetranuclear CuZCluster in N2O Reductase:Â pH Effect on the Edge Ligand and Its Contribution to Reactivity. Journal of the American Chemical Society, 2007, 129, 3955-3965.	13.7	52
28	Vinyl Oxidative Coupling as a Synthetic Route to Catalytically Active Monovalent Chromium. Journal of the American Chemical Society, 2011, 133, 6388-6395.	13.7	48
29	Characterization of Divalent and Trivalent Species Generated in the Chemical and Electrochemical Oxidation of a Dimeric Pincer Complex of Nickel. Inorganic Chemistry, 2011, 50, 2661-2674.	4.0	48
30	The Two-State Issue in the Mixed-Valence Binuclear CuACenter in CytochromecOxidase and N2O Reductase. Journal of the American Chemical Society, 2006, 128, 16452-16453.	13.7	47
31	Spectroscopic and Density Functional Theory Studies of the Blueâ^'Copper Site in M121SeM and C112SeC Azurin:â€‰ Cuâ^'Se Versus Cuâ^'S Bonding. Journal of the American Chemical Society, 2008, 130, 3866-3877.	13.7	46
32	Attempting to Reduce the Irreducible: Preparation of a Rare Paramagnetic Thorium Species. Organometallics, 2010, 29, 692-702.	2.3	43
33	Preparation and Characterization of a Reduced Chromium Complex via Vinyl Oxidative Coupling: Formation of a Self-Activating Catalyst for Selective Ethylene Trimerization. Journal of the American Chemical Society, 2011, 133, 6380-6387.	13.7	43
34	A T-shaped Ni[Îº²-(CF₂)₄â€“] NHC complex: unusual C_{sp3}â€“F and Mâ€“C^Fbond functionalization reactions. Chemical Science, 2015, 6, 6392-6397.	7.4	41
35	Reactivity and Regioselectivity of Palladium-Catalyzed Direct Arylation in Noncooperative and Cooperative Processes. Organometallics, 2012, 31, 4631-4634.	2.3	35
36	New Self-Activating Organochromium Catalyst Precursor for Selective Ethylene Trimerization.. Organometallics, 2011, 30, 4201-4210.	2.3	34

#	Article	IF	Citations
37	Mechanistic Analysis of Iridium(III) Catalyzed Direct Cï£¿H Arylations: A DFT Study. Chemistry - A European Journal, 2011, 17, 13847-13853.	3.3	33
38	Selective Activation of Fluoroalkenes with Nâ€Heterocyclic Carbenes: Synthesis of Nâ€Heterocyclic Fluoroalkenes and Polyfluoroalkenyl Imidazolium Salts. Chemistry - A European Journal, 2016, 22, 8063-8067.	3.3	30
39	Catalytic H/D Exchange of Unactivated Aliphatic Câ€“H Bonds. Organometallics, 2013, 32, 6599-6604.	2.3	24
40	Molecular and Electronic Structures of Complexes Containing 1-(2-pyridylazo)-2-phenanthrol (PAPL): Revisiting a Redox-Active Ligand. Inorganic Chemistry, 2013, 52, 13021-13028.	4.0	23
41	Mononuclear, Dinuclear, and Trinuclear Iron Complexes Featuring a New Monoanionic SNS Thiolate Ligand. Inorganic Chemistry, 2016, 55, 987-997.	4.0	23
42	Noncovalent Interactions of Metal Cations and Arenes Probed with Thallium(I) Complexes. Inorganic Chemistry, 2013, 52, 5749-5756.	4.0	22
43	Iron(II) Complexes of a Hemilabile SNS Amido Ligand: Synthesis, Characterization, and Reactivity. Inorganic Chemistry, 2017, 56, 13766-13776.	4.0	22
44	Low-Valent Vanadium Complexes of a Pyrrolide-Based Ligand. Electronic Structure of a Dimeric V(I) Complex with a Short and Weak Metalâ^'Metal Bond. Inorganic Chemistry, 2008, 47, 3265-3273.	4.0	21
45	Intramolecular Alkene Aminocarbonylation Using Concerted Cycloadditions of Aminoâ€Isocyanates. Chemistry - A European Journal, 2016, 22, 7906-7916.	3.3	19
46	Synthesis, X-ray crystal structure and DFT calculations of bis(N-(2-picolyl)picolinamido)Mn(iii) hexafluorophosphate. Dalton Transactions, 2007, , 4143.	3.3	17
47	Intermolecular Aminocarbonylation of Alkenes using Concerted Cycloadditions of Iminoisocyanates. Journal of Organic Chemistry, 2017, 82, 1175-1194.	3.2	17
48	Diastereoselective Hydrogenâ€Transfer Reactions: An Experimental and DFT Study. Chemistry - A European Journal, 2013, 19, 9308-9318.	3.3	16
49	First structural evidence for multiple alkali metals between sandwich decks in a metallocene. Dalton Transactions, 2012, 41, 8060.	3.3	15
50	Reinvestigation of the method used to map the electronic structure of blue copper proteins by NMR relaxation. Journal of Biological Inorganic Chemistry, 2006, 11, 277-285.	2.6	12
51	Iron(II) complexes containing thiophene-substituted â€œbispicenâ€•ligands â€” Spin-crossover, ligand rearrangements, and ferromagnetic interactions. Canadian Journal of Chemistry, 2010, 88, 954-963.	1.1	10
52	Bis(imido) W(VI) Complexes Chelated by N,Nâ€²-Disubstituted 1,8-Diamidonaphthalene: An Analysis of Bonding, Isocyanate Insertion, and Al-Me Transfer. Organometallics, 2007, 26, 6586-6590.	2.3	9
53	Disubstituted 1,8-Diamidonaphthalene Ligands as a Flexible, Responsive, and Reactive Framework for Tantalum Complexes. Inorganic Chemistry, 2010, 49, 5231-5240.	4.0	9
54	Combining oximes with azides to create a novel 1-D [NaCo^{III}₂] system: synthesis, structure and solid-state NMR. Dalton Transactions, 2010, 39, 1504-1510.	3.3	9

#	Article	IF	Citations
55	Syntheses and Serendipity: Complexes [LSnPtCl₂(SMe₂)]₂, [{LSnPtCl(SMe₂)}₂SnCl₂], [(LSn)₃(PtCl₂)(PtClSnCl){LSn(Cl)OH}], and [O(SnCl)₂(SnL)₂] with L=MeN(CH₂CMe₂O)₂. Chemistry - A European Journal, 2018, 24, 5551.	3.3	5
56	Quantitative descriptors of electronic structure in the framework of molecular orbital theory. Advances in Inorganic Chemistry, 2019, 73, 191-219.	1.0	1
57	Synthesis and coordination chemistry of a potential precursor to a triarylamminium radical cation ditopic ligand. Polyhedron, 2013, 52, 1118-1125.	2.2	0