

# Serge I Gorelsky

## List of Publications by Year in descending order

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57  
papers

6,916  
citations

109321

35  
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123424

61  
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68  
all docs

68  
docs citations

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times ranked

6194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative descriptors of electronic structure in the framework of molecular orbital theory. <i>Advances in Inorganic Chemistry</i> , 2019, 73, 191-219. Rational Syntheses and Serendipity: Complexes	1.0	1
2	$[\text{LSnPtCl}_2(\text{SMe})_2]_2$ , $[\{\text{LSnPtCl}(\text{SMe})_2\}_2\text{SnCl}_2]$ , $[(\text{LSn})_3(\text{PtCl}_2)(\text{PtClSnCl})\{\text{LSn}(\text{Cl})\text{OH}\}]$ , and $[\text{O}(\text{SnCl})_2(\text{SnL})_2]$ with $\text{L}=\text{MeN}(\text{CH}_2)_2\text{CMe}_2\text{O}$ . <i>Chemistry - A European Journal</i> , 2018, 24, 5551	3.3	5
3	Intermolecular Aminocarbonylation of Alkenes using Concerted Cycloadditions of Iminoisocyanates. <i>Journal of Organic Chemistry</i> , 2017, 82, 1175-1194.	3.2	17
4	Iron(II) Complexes of a Hemilabile SNS Amido Ligand: Synthesis, Characterization, and Reactivity. <i>Inorganic Chemistry</i> , 2017, 56, 13766-13776.	4.0	22
5	Selective Activation of Fluoroalkenes with $\text{N}\text{-}\text{H}$ -Heterocyclic Carbenes: Synthesis of $\text{N}\text{-}\text{H}$ -Heterocyclic Fluoroalkenes and Polyfluoroalkenyl Imidazolium Salts. <i>Chemistry - A European Journal</i> , 2016, 22, 8063-8067.	3.3	30
6	Intramolecular Alkene Aminocarbonylation Using Concerted Cycloadditions of Amino $\text{-}\text{H}$ -isocyanates. <i>Chemistry - A European Journal</i> , 2016, 22, 7906-7916.	3.3	19
7	Mononuclear, Dinuclear, and Trinuclear Iron Complexes Featuring a New Monoanionic SNS Thiolate Ligand. <i>Inorganic Chemistry</i> , 2016, 55, 987-997.	4.0	23
8	Perfluoroalkyl Cobalt(III) Fluoride and Bis(perfluoroalkyl) Complexes: Catalytic Fluorination and Selective Difluorocarbene Formation. <i>Journal of the American Chemical Society</i> , 2015, 137, 16064-16073.	13.7	63
9	A T-shaped $\text{Ni}[\text{F}^{\text{sup}}_2]_2(\text{CF}_2)_4$ NHC complex: unusual $\text{C}_{\text{sp}^3}\text{-F}$ and $\text{M}\text{-}\text{C}^{\text{sup}}\text{F}$ bond functionalization reactions. <i>Chemical Science</i> , 2015, 6, 6392-6397.	7.4	41
10	How Innocent are Potentially Redox Non-Innocent Ligands? Electronic Structure and Metal Oxidation States in Iron-PNN Complexes as a Representative Case Study. <i>Inorganic Chemistry</i> , 2015, 54, 4909-4926.	4.0	76
11	Slow Magnetic Relaxation in Uranium(III) and Neodymium(III) Cyclooctatetraenyl Complexes. <i>Organometallics</i> , 2015, 34, 1415-1418.	2.3	76
12	Identifying Homocouplings as Critical Side Reactions in Direct Arylation Polycondensation. <i>ACS Macro Letters</i> , 2014, 3, 819-823.	4.8	111
13	Synthesis and coordination chemistry of a potential precursor to a triarylamminium radical cation ditopic ligand. <i>Polyhedron</i> , 2013, 52, 1118-1125.	2.2	0
14	Molecular and Electronic Structures of Complexes Containing 1-(2-pyridylazo)-2-phenanthrol (PAPL): Revisiting a Redox-Active Ligand. <i>Inorganic Chemistry</i> , 2013, 52, 13021-13028.	4.0	23
15	Influence of the Ligand Field on Slow Magnetization Relaxation versus Spin Crossover in Mononuclear Cobalt Complexes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11290-11293.	13.8	192
16	Diastereoselective Hydrogen $\text{-}\text{H}$ -Transfer Reactions: An Experimental and DFT Study. <i>Chemistry - A European Journal</i> , 2013, 19, 9308-9318.	3.3	16
17	Origins of regioselectivity of the palladium-catalyzed (aromatic)CH bond metalation $\text{-}\text{H}$ -deprotonation. <i>Coordination Chemistry Reviews</i> , 2013, 257, 153-164.	18.8	257
18	An Organometallic Building Block Approach To Produce a Multidecker $\text{4f}$ Single-Molecule Magnet. <i>Journal of the American Chemical Society</i> , 2013, 135, 3502-3510.	13.7	189

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19	Noncovalent Interactions of Metal Cations and Arenes Probed with Thallium(I) Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 5749-5756.	4.0	22
20	Catalytic H/D Exchange of Unactivated Aliphatic C-H Bonds. <i>Organometallics</i> , 2013, 32, 6599-6604.	2.3	24
21	First structural evidence for multiple alkali metals between sandwich decks in a metallocene. <i>Dalton Transactions</i> , 2012, 41, 8060.	3.3	15
22	Tuning the Regioselectivity of Palladium-Catalyzed Direct Arylation of Azoles by Metal Coordination. <i>Organometallics</i> , 2012, 31, 794-797.	2.3	61
23	Analysis of the Palladium-Catalyzed (Aromatic) C-H Bond Metalation-Deprotonation Mechanism Spanning the Entire Spectrum of Arenes. <i>Journal of Organic Chemistry</i> , 2012, 77, 658-668.	3.2	380
24	Complexes with a Single Metal-Metal Bond as a Sensitive Probe of Quality of Exchange-Correlation Functionals. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 908-914.	5.3	54
25	Reactivity and Regioselectivity of Palladium-Catalyzed Direct Arylation in Noncooperative and Cooperative Processes. <i>Organometallics</i> , 2012, 31, 4631-4634.	2.3	35
26	Vinyl Oxidative Coupling as a Synthetic Route to Catalytically Active Monovalent Chromium. <i>Journal of the American Chemical Society</i> , 2011, 133, 6388-6395.	13.7	48
27	Characterization of Divalent and Trivalent Species Generated in the Chemical and Electrochemical Oxidation of a Dimeric Pincer Complex of Nickel. <i>Inorganic Chemistry</i> , 2011, 50, 2661-2674.	4.0	48
28	Preparation and Characterization of a Reduced Chromium Complex via Vinyl Oxidative Coupling: Formation of a Self-Activating Catalyst for Selective Ethylene Trimerization. <i>Journal of the American Chemical Society</i> , 2011, 133, 6380-6387.	13.7	43
29	An Organometallic Sandwich Lanthanide Single-Ion Magnet with an Unusual Multiple Relaxation Mechanism. <i>Journal of the American Chemical Society</i> , 2011, 133, 19286-19289.	13.7	257
30	New Self-Activating Organochromium Catalyst Precursor for Selective Ethylene Trimerization.. <i>Organometallics</i> , 2011, 30, 4201-4210.	2.3	34
31	Importance of Out-of-State Spin-Orbit Coupling for Slow Magnetic Relaxation in Mononuclear Fe <sup>II</sup> Complexes. <i>Journal of the American Chemical Society</i> , 2011, 133, 15806-15809.	13.7	202
32	Rhodium(III)-Catalyzed Heterocycle Synthesis Using an Internal Oxidant: Improved Reactivity and Mechanistic Studies. <i>Journal of the American Chemical Society</i> , 2011, 133, 6449-6457.	13.7	865
33	Palladium-Catalyzed Carbocyclization of Alkynyl Ketones Proceeding through a Carbopalladation Pathway. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2342-2345.	13.8	85
34	Mechanistic Analysis of Iridium(III) Catalyzed Direct C-H Arylations: A DFT Study. <i>Chemistry - A European Journal</i> , 2011, 17, 13847-13853.	3.3	33
35	Iron(II) complexes containing thiophene-substituted $\beta$ -bispicenyl ligands: Spin-crossover, ligand rearrangements, and ferromagnetic interactions. <i>Canadian Journal of Chemistry</i> , 2010, 88, 954-963.	1.1	10
36	Modulating Reactivity and Diverting Selectivity in Palladium-Catalyzed Heteroaromatic Direct Arylation Through the Use of a Chloride Activating/Blocking Group. <i>Journal of Organic Chemistry</i> , 2010, 75, 1047-1060.	3.2	299

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37	Investigation of the Mechanism of C(sp <sup>3</sup> )âˆ’H Bond Cleavage in Pd(0)-Catalyzed Intramolecular Alkane Arylation Adjacent to Amides and Sulfonamides. <i>Journal of the American Chemical Society</i> , 2010, 132, 10692-10705.	13.7	255
38	Disubstituted 1,8-Diamidonaphthalene Ligands as a Flexible, Responsive, and Reactive Framework for Tantalum Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 5231-5240.	4.0	9
39	Mechanistic Analysis of Azine <i>N</i>-Oxide Direct Arylation: Evidence for a Critical Role of Acetate in the Pd(OAc) <sub>2</sub> Precatalyst. <i>Journal of Organic Chemistry</i> , 2010, 75, 8180-8189.	3.2	203
40	Regioselective Oxidative Arylation of Indoles Bearing <i>N</i>-Alkyl Protecting Groups: Dual Câˆ’H Functionalization via a Concerted Metalationâˆ’Deprotonation Mechanism. <i>Journal of the American Chemical Society</i> , 2010, 132, 14676-14681.	13.7	277
41	Attempting to Reduce the Irreducible: Preparation of a Rare Paramagnetic Thorium Species. <i>Organometallics</i> , 2010, 29, 692-702.	2.3	43
42	Combining oximes with azides to create a novel 1-D [NaCo <sup>III</sup> ] <sub>2</sub> ] system: synthesis, structure and solid-state NMR. <i>Dalton Transactions</i> , 2010, 39, 1504-1510.	3.3	9
43	Extended charge decomposition analysis and its application for the investigation of electronic relaxation. <i>Theoretical Chemistry Accounts</i> , 2008, 119, 57-65.	1.4	72
44	Analysis of the Concerted Metalation-Deprotonation Mechanism in Palladium-Catalyzed Direct Arylation Across a Broad Range of Aromatic Substrates. <i>Journal of the American Chemical Society</i> , 2008, 130, 10848-10849.	13.7	900
45	Low-Valent Vanadium Complexes of a Pyrrolide-Based Ligand. Electronic Structure of a Dimeric V(II) Complex with a Short and Weak Metalâˆ’Metal Bond. <i>Inorganic Chemistry</i> , 2008, 47, 3265-3273.	4.0	21
46	Spectroscopic and Density Functional Theory Studies of the Blueâˆ’Copper Site in M121SeM and C112SeC Azurin:â€‰Cuâˆ’S Versus Cuâˆ’S Bonding. <i>Journal of the American Chemical Society</i> , 2008, 130, 3866-3877.	13.7	46
47	Spectroscopic, Computational, and Kinetic Studies of the 1/4-Sulfide-Bridged Tetranuclear Cu <sub>4</sub> Cluster in N2O Reductase:â€‰pH Effect on the Edge Ligand and Its Contribution to Reactivity. <i>Journal of the American Chemical Society</i> , 2007, 129, 3955-3965.	13.7	52
48	Synthesis, X-ray crystal structure and DFT calculations of bis(N-(2-picoly))picolinamido)Mn(III) hexafluorophosphate. <i>Dalton Transactions</i> , 2007, , 4143.	3.3	17
49	Bis(imido) W(VI) Complexes Chelated by N,Nâ€²-Disubstituted 1,8-Diamidonaphthalene: An Analysis of Bonding, Isocyanate Insertion, and Al-Me Transfer. <i>Organometallics</i> , 2007, 26, 6586-6590.	2.3	9
50	High-Yielding Palladium-Catalyzed Intramolecular Alkane Arylation:â€‰Reaction Development and Mechanistic Studies. <i>Journal of the American Chemical Society</i> , 2007, 129, 14570-14571.	13.7	369
51	The Two-State Issue in the Mixed-Valence Binuclear Cu <sub>2</sub> Center in Cytochrome cOxidase and N2O Reductase. <i>Journal of the American Chemical Society</i> , 2006, 128, 16452-16453.	13.7	47
52	Mechanism of N2O Reduction by the 1/4-S Tetranuclear Cu <sub>4</sub> Cluster of Nitrous Oxide Reductase. <i>Journal of the American Chemical Society</i> , 2006, 128, 278-290.	13.7	322
53	Reinvestigation of the method used to map the electronic structure of blue copper proteins by NMR relaxation. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 277-285.	2.6	12
54	Metalâ€’thiolate bonds in bioinorganic chemistry. <i>Journal of Computational Chemistry</i> , 2006, 27, 1415-1428.	3.3	112

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55	Spectroscopic and DFT Investigation of $[M\{HB(3,5\text{-}iPr_2pz)_3\}(SC_6F_5)]$ ( $M = Mn, Fe, Co, Ni, Cu,$ and $Zn$ ) Model Complexes: A Periodic Trends in Metal-Thiolate Bonding. <i>Inorganic Chemistry</i> , 2005, 44, 4947-4960.	4.0	175
56	N <sub>2</sub> O Reduction by the $\mu_4$ -Sulfide-Bridged Tetranuclear Cu <sub>4</sub> Z Cluster Active Site. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4132-4140.	13.8	112
57	Activation of N <sub>2</sub> O Reduction by the Fully Reduced $\mu_4$ -Sulfide Bridged Tetranuclear Cu <sub>4</sub> Z Cluster in Nitrous Oxide Reductase. <i>Journal of the American Chemical Society</i> , 2003, 125, 15708-15709.	13.7	106