

Sergey N Semenov

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,662
citations

361413

20
h-index

361022

35
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41
all docs

41
docs citations

41
times ranked

2304
citing authors

#	ARTICLE	IF	CITATIONS
1	Autocatalytic, bistable, oscillatory networks of biologically relevant organic reactions. <i>Nature</i> , 2016, 537, 656-660.	27.8	243
2	Rational design of functional and tunable oscillating enzymatic networks. <i>Nature Chemistry</i> , 2015, 7, 160-165.	13.6	219
3	Probing cellular heterogeneity in cytokine-secreting immune cells using droplet-based microfluidics. <i>Lab on A Chip</i> , 2013, 13, 4740.	6.0	204
4	Field-induced conductance switching by charge-state alternation in organometallic single-molecule junctions. <i>Nature Nanotechnology</i> , 2016, 11, 170-176.	31.5	155
5	Role of the Ancillary Ligand <i>N,N</i> -Dimethylaminoethanol in the Sensitization of Eu ^{III} and Tb ^{III} Luminescence in Dimeric β^2 -Diketonates. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3614-3626.	2.5	102
6	Electronic Communication in Dinuclear C ₄ -Bridged Tungsten Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 3115-3127.	13.7	63
7	Autocatalytic Cycles in a Copper-Catalyzed Azide-Alkyne Cycloaddition Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 10221-10232.	13.7	51
8	Autocatalysis: Kinetics, Mechanisms and Design. <i>ChemSystemsChem</i> , 2021, 3, e2000026.	2.6	51
9	Coupling of Alternating Current to Transition-Metal Catalysis: Examples of Nickel-Catalyzed Cross-Coupling. <i>Journal of Organic Chemistry</i> , 2021, 86, 782-793.	3.2	49
10	Threshold Sensing through a Synthetic Enzymatic Reaction "Diffusion Network". <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8066-8069.	13.8	46
11	Robustness, Entrainment, and Hybridization in Dissipative Molecular Networks, and the Origin of Life. <i>Journal of the American Chemical Society</i> , 2019, 141, 8289-8295.	13.7	44
12	Tunneling across SAMs Containing Oligophenyl Groups. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11331-11337.	3.1	43
13	Magnetic Levitation To Characterize the Kinetics of Free-Radical Polymerization. <i>Journal of the American Chemical Society</i> , 2017, 139, 18688-18697.	13.7	43
14	Syntheses, structures, and spectroscopy of mono- and polynuclear lanthanide complexes containing 4-acyl-pyrazolones and diphosphineoxide. <i>Inorganica Chimica Acta</i> , 2010, 363, 4038-4047.	2.4	39
15	An Iron-Capped Metal-Organic Polyynne: $\{[\text{Fe}](\text{C}^{\circ}\text{C})_2[\text{W}]^{\circ}\text{C}^{\circ}\text{C}^{\circ}[\text{W}](\text{C}^{\circ}\text{C})_2[\text{Fe}]\}$. <i>Journal of the American Chemical Society</i> , 2010, 132, 7584-7585.	13.7	31
16	Influence of Molecular Structure on the Properties of Out-of-Equilibrium Oscillating Enzymatic Reaction Networks. <i>Journal of the American Chemical Society</i> , 2015, 137, 12415-12420.	13.7	31
17	First direct assembly of molecular helical complexes into a coordination polymer. <i>Chemical Communications</i> , 2008, , 1992.	4.1	26
18	Ultrasensitivity by Molecular Titration in Spatially Propagating Enzymatic Reactions. <i>Biophysical Journal</i> , 2013, 105, 1057-1066.	0.5	25

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19	Spatiotemporal Regulation of Hydrogel Actuators by Autocatalytic Reaction Networks. <i>Advanced Materials</i> , 2022, 34, e2106816.	21.0	22
20	New Helical Zinc Complexes with Schiff Base Derivatives of β -Diketonates or β -Keto Esters and Ethylenediamine. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 3467-3474.	2.0	21
21	A new rare-earth metal acylpyrazolonate containing the Zundel ion stabilized by strong hydrogen bonding. <i>Inorganic Chemistry Communication</i> , 2006, 9, 634-637.	3.9	20
22	Syntheses, spectroscopic characterization and X-ray structural studies of lanthanide complexes with adamantyl substituted 4-acylpyrazol-5-one. <i>Inorganica Chimica Acta</i> , 2006, 359, 4063-4070.	2.4	17
23	5-Nitroaminotetrazole as a building block for extended network structures: Syntheses and crystal structures of a number of heavy metal derivatives. <i>Polyhedron</i> , 2007, 26, 4899-4907.	2.2	16
24	Self-Coupling of a β -Butatrienylidene Tungsten Complex. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5203-5206.	13.8	14
25	Autocatalytic and oscillatory reaction networks that form guanidines and products of their cyclization. <i>Nature Communications</i> , 2021, 12, 2994.	12.8	13
26	The role of reaction medium on the coordination environment of terbium in complexes with 4-acylpyrazol-5-ones. <i>Inorganic Chemistry Communication</i> , 2003, 6, 1423-1425.	3.9	11
27	Unconventional approaches for organic electrosynthesis: Recent progress. <i>Current Opinion in Electrochemistry</i> , 2022, 35, 101050.	4.8	10
28	Photocatalytic Regulation of an Autocatalytic Wave of Spatially Propagating Enzymatic Reactions. <i>ChemCatChem</i> , 2018, 10, 1798-1803.	3.7	9
29	Kinetic Selection in the Out-of-Equilibrium Autocatalytic Reaction Networks that Produce Macrocylic Peptides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20366-20375.	13.8	9
30	Crystal structures of tin(IV) chloride hydrates. <i>Mendeleev Communications</i> , 2005, 15, 205-207.	1.6	8
31	[W(CO)(dpppe) ₂] Cumulenylidene and Acetylidene Complexes Accessed via Stannylated Acetylenes and Butadiynes. <i>Organometallics</i> , 2010, 29, 6321-6328.	2.3	5
32	Four-Variable Model of an Enzymatic Oscillator Based on Trypsin. <i>Israel Journal of Chemistry</i> , 2018, 58, 781-786.	2.3	5
33	Fluorescent hydrogels for studying Ca ²⁺ -dependent reaction-diffusion processes. <i>Chemical Communications</i> , 2014, 50, 3089-3092.	4.1	3
34	Mathematical Analysis of a Prototypical Autocatalytic Reaction Network. <i>Life</i> , 2019, 9, 42.	2.4	2
35	Crystal Structures of Tin(IV) Chloride Hydrates.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
36	Kinetic Selection in the Out-of-Equilibrium Autocatalytic Reaction Networks that Produce Macrocylic Peptides. <i>Angewandte Chemie</i> , 2021, 133, 20529-20538.	2.0	0