Alexey S Kashin

List of Publications by Year
in descending order

42	1,662	393982	288905
papers	citations	19 h-index	40 g-index

46	46	46	1974
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Target-oriented analysis of gaseous, liquid and solid chemical systems by mass spectrometry, nuclear magnetic resonance spectroscopy and electron microscopy. Russian Chemical Reviews, 2013, 82, 648-685.	2.5	206
2	â€œSolvent-in-saltâ€•systems for design of new materials in chemistry, biology and energy research. Chemical Society Reviews, 2018, 47, 1250-1284.	18.7	151
3	A SEM study of nanosized metal films and metal nanoparticles obtained by magnetron sputtering. Russian Chemical Bulletin, 2011, 60, 2602-2607.	0.4	143
4	Catalytic Câ€“C and Câ€“Heteroatom Bond Formation Reactions: In Situ Generated or Preformed Catalysts? Complicated Mechanistic Picture Behind Well-Known Experimental Procedures. Journal of Organic Chemistry, 2013, 78, 11117-11125.	1.7	133
5	A New Mode of Operation of Pd-NHC Systems Studied in a Catalytic Mizorokiâ€“Heck Reaction. Organometallics, 2017, 36, 1981-1992.	1.1	119
6	Threeâ€Dimensional Printing with Biomassâ€Derived PEF for Carbonâ€Neutral Manufacturing. Angewandte Chemie - International Edition, 2017, 56, 15931-15935.	7.2	101
7	Direct Observation of Selfâ€Organized Waterâ€Containing Structures in the Liquid Phase and Their Influence on 5â€(Hydroxymethyl)furfural Formation in Ionic Liquids. Angewandte Chemie - International Edition, 2016, 55, 2161-2166.	7.2	82
8	Revealing the unusual role of bases in activation/deactivation of catalytic systems: Oâ€“NHC coupling in M/NHC catalysis. Chemical Science, 2018, 9, 5564-5577.	3.7	62
9	Monitoring chemical reactions in liquid media using electron microscopy. Nature Reviews Chemistry, 2019, 3, 624-637.	13.8	62
10	A solid acetylene reagent with enhanced reactivity: fluoride-mediated functionalization of alcohols and phenols. Green Chemistry, 2017, 19, 3032-3041.	4.6	56
11	Spatial imaging of carbon reactivity centers in Pd/C catalytic systems. Chemical Science, 2015, 6, 3302-3313.	3.7	49
12	Nature of the Copper-Oxide-Mediated Câ€“S Cross-Coupling Reaction: Leaching of Catalytically Active Species from the Metal Oxide Surface. ACS Catalysis, 2016, 6, 3637-3643.	5.5	45
13	Efficient General Procedure To Access a Diversity of Gold(0) Particles and Gold(I) Phosphine Complexes from a Simple HAuCl₄ Source. Localization of Homogeneous/Heterogeneous Systemâ€™s Interface and Field-Emission Scanning Electron Microscopy Study. Journal of the American Chemical Society, 2013, 135, 3550-3559.	6.6	40
14	Oxidation of cycloalkanones with hydrogen peroxide: an alternative route to the Baeyerâ€“Villiger reaction. Synthesis of dicarboxylic acid esters. Tetrahedron, 2008, 64, 7944-7948.	1.0	37
15	Exploring the performance of nanostructured reagents with organic-group-defined morphology in cross-coupling reaction. Nature Communications, 2018, 9, 2936.	5.8	34
16	Biomass-Derived Ionic Liquids Based on a 5-HMF Platform Chemical: Synthesis, Characterization, Biological Activity, and Tunable Interactions at the Molecular Level. ACS Sustainable Chemistry and Engineering, 2021, 9, 3552-3570.	3.2	27
17	Ionic Liquids As Tunable Toxicity Storage Media for Sustainable Chemical Waste Management. ACS Sustainable Chemistry and Engineering, 2018, 6, 719-726.	3.2	26
18	Threeâ€Dimensional Printing with Biomassâ€Derived PEF for Carbonâ€Neutral Manufacturing. Angewandte Chemie, 2017, 129, 16147-16151.	1.6	25

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19	Modern electron microscopy in the study of chemical systems at the boundary of organic synthesis and catalysis. Russian Chemical Reviews, 2016, 85, 1198-1214.	2.5	22
20	Visualization of catalyst dynamics and development of a practical procedure to study complex â€œcocktailâ€•type catalytic systems. Faraday Discussions, 2021, 229, 458-474.	1.6	21
21	In situ transformations of Pd/NHC complexes with N-heterocyclic carbene ligands of different nature into colloidal Pd nanoparticles. Inorganic Chemistry Frontiers, 2019, 6, 482-492.	3.0	19
22	Controlled Natural Biomass Deoxygenation Allows the Design of Reusable Hot-Melt Adhesives Acting in a Multiple Oxygen Binding Mode. ACS Applied Materials & Interfaces, 2020, 12, 45394-45403.	4.0	19
23	Switchable Ni-catalyzed bis-thiolation of acetylene with aryl disulfides as an access to functionalized alkenes and 1,3-dienes. Applied Catalysis A: General, 2019, 571, 170-179.	2.2	17
24	Highly Selective Catalytic Synthesis of (E,E)-1,4-Diiodobuta-1,3-diene via Atom-Efficient Addition of Acetylene and Iodine: A Versatile (E,E)-1,3-Diene Building Block in Cross-Coupling Reactions. Synlett, 2011, 2011, 2021-2024.	1.0	16
25	Micro-scale processes occurring in ionic liquidâ€“water phases during extraction. Separation and Purification Technology, 2018, 196, 318-326.	3.9	15
26	OX-1 Metalâ€“Organic Framework Nanosheets as Robust Hosts for Highly Active Catalytic Palladium Species. ACS Sustainable Chemistry and Engineering, 2019, 7, 5875-5885.	3.2	15
27	Assessing possible influence of structuring effects in solution on cytotoxicity of ionic liquid systems. Journal of Molecular Liquids, 2020, 297, 111751.	2.3	15
28	meso-substituted polymethine dyes as efficient spectral and fluorescent probes for biomacromolecules. High Energy Chemistry, 2010, 44, 224-227.	0.2	13
29	Size effect of Pd nanoparticles in the selective liquid-phase hydrogenation of diphenylacetylene. Kinetics and Catalysis, 2015, 56, 733-740.	0.3	12
30	Spectral and fluorescent study of the interaction of anionic cyanine dyes with serum albumins. High Energy Chemistry, 2009, 43, 480-488.	0.2	10
31	Evaluation of phytotoxicity and cytotoxicity of industrial catalyst components (Fe, Cu, Ni, Rh and Pd): A case of lethal toxicity of a rhodium salt in terrestrial plants. Chemosphere, 2019, 223, 738-747.	4.2	10
32	Silica-Based Aerogels with Tunable Properties: The Highly Efficient BF₃-Catalyzed Preparation and Look inside Their Structure. Macromolecules, 2021, 54, 1961-1975.	2.2	10
33	Reductive Amidation without an External Hydrogen Source Using Rhodium on Carbon Matrix as a Catalyst. ChemCatChem, 2020, 12, 112-117.	1.8	9
34	Direct Observation of Selfâ€Organized Waterâ€Containing Structures in the Liquid Phase and Their Influence on 5â€(Hydroxymethyl)furfural Formation in Ionic Liquids. Angewandte Chemie, 2016, 128, 2201-2206.	1.6	8
35	Visualization of the Mechanical Wave Effect on Liquid Microphases and Its Application for the Tuning of Dissipative Soft Microreactors. Jacs Au, 2021, 1, 87-97.	3.6	8
36	Neural Network Analysis of Electron Microscopy Video Data Reveals the Temperatureâ€Driven Microphase Dynamics in the Ions/Water System. Small, 2021, 17, e2007726.	5.2	8

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37	Nano-Structured Metal Chalcogenides as Reagents for the Catalytic Carbonâ€“Sulfur Bond Formation in Cross-Coupling Reaction. Topics in Catalysis, 2013, 56, 1246-1252.	1.3	6
38	Nanoscale Advancement Continuesâ€”From Catalysts and Reagents to Restructuring of Reaction Media. Angewandte Chemie - International Edition, 2021, 60, 18926-18928.	7.2	5
39	Solid-State Câ€“S Coupling in Nickel Organochalcogenide Frameworks as a Route to Hierarchical Structure Transfer to Binary Nanomaterials. Inorganic Chemistry, 2020, 59, 10835-10844.	1.9	3
40	Nanoscale Advancement Continuesâ€”From Catalysts and Reagents to Restructuring of Reaction Media. Angewandte Chemie, 2021, 133, 19074-19076.	1.6	1
41	RÃ¼cktitelbild: Threeâ€Dimensional Printing with Biomassâ€Derived PEF for Carbonâ€Neutral Manufacturing (Angew. Chem. 50/2017). Angewandte Chemie, 2017, 129, 16308-16308.	1.6	0
42	Fast and Convenient Method For FE-SEM Characterization of Microstructured Organic Solutions in Ionic Liquids. Microscopy and Microanalysis, 2019, 25, 67-68.	0.2	0