

# Alexey S Kashin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43  
papers

1,262  
citations

18  
h-index

35  
g-index

46  
ext. papers

1,485  
ext. citations

8.7  
avg, IF

5.01  
L-index

#	Paper	IF	Citations
43	Introduction to Dynamic Catalysis and the Interface Between Molecular and Heterogeneous Catalysts <b>2021</b> , 13-42		1
42	Neural Network Analysis of Electron Microscopy Video Data Reveals the Temperature-Driven Microphase Dynamics in the Ions/Water System. <i>Small</i> , <b>2021</b> , 17, e2007726	11	0
41	Nanoscale Advancement Continues-From Catalysts and Reagents to Restructuring of Reaction Media. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 18926-18928	16.4	0
40	Nanoscale Advancement Continues From Catalysts and Reagents to Restructuring of Reaction Media. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 19074-19076	3.6	0
39	Visualization of catalyst dynamics and development of a practical procedure to study complex "cocktail"-type catalytic systems. <i>Faraday Discussions</i> , <b>2021</b> , 229, 458-474	3.6	9
38	Visualization of the Mechanical Wave Effect on Liquid Microphases and Its Application for the Tuning of Dissipative Soft Microreactors. <i>Jacs Au</i> , <b>2021</b> , 1, 87-97		4
37	Silica-Based Aerogels with Tunable Properties: The Highly Efficient BF <sub>3</sub> -Catalyzed Preparation and Look inside Their Structure. <i>Macromolecules</i> , <b>2021</b> , 54, 1961-1975	5.5	3
36	Biomass-Derived Ionic Liquids Based on a 5-HMF Platform Chemical: Synthesis, Characterization, Biological Activity, and Tunable Interactions at the Molecular Level. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 3552-3570	8.3	9
35	Assessing possible influence of structuring effects in solution on cytotoxicity of ionic liquid systems. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 297, 111751	6	11
34	Reductive Amidation without an External Hydrogen Source Using Rhodium on Carbon Matrix as a Catalyst. <i>ChemCatChem</i> , <b>2020</b> , 12, 112-117	5.2	5
33	Solid-State C-S Coupling in Nickel Organochalcogenide Frameworks as a Route to Hierarchical Structure Transfer to Binary Nanomaterials. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 10835-10844	5.1	2
32	Controlled Natural Biomass Deoxygenation Allows the Design of Reusable Hot-Melt Adhesives Acting in a Multiple Oxygen Binding Mode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 45394-45403	9.5	6
31	In situ transformations of Pd/NHC complexes with N-heterocyclic carbene ligands of different nature into colloidal Pd nanoparticles. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 482-492	6.8	18
30	Fast and Convenient Method For FE-SEM Characterization of Microstructured Organic Solutions in Ionic Liquids. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 67-68	0.5	
29	OX-1 Metal-Organic Framework Nanosheets as Robust Hosts for Highly Active Catalytic Palladium Species. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5875-5885	8.3	11
28	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. <i>Chemosphere</i> , <b>2019</b> , 223, 738-747	8.4	4
27	Monitoring chemical reactions in liquid media using electron microscopy. <i>Nature Reviews Chemistry</i> , <b>2019</b> , 3, 624-637	34.6	33

26	Switchable Ni-catalyzed bis-thiolation of acetylene with aryl disulfides as an access to functionalized alkenes and 1,3-dienes. <i>Applied Catalysis A: General</i> , <b>2019</b> , 571, 170-179	5.1	11
25	"Solvent-in-salt" systems for design of new materials in chemistry, biology and energy research. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 1250-1284	58.5	101
24	Micro-scale processes occurring in ionic liquid/water phases during extraction. <i>Separation and Purification Technology</i> , <b>2018</b> , 196, 318-326	8.3	14
23	Exploring the performance of nanostructured reagents with organic-group-defined morphology in cross-coupling reaction. <i>Nature Communications</i> , <b>2018</b> , 9, 2936	17.4	26
22	Revealing the unusual role of bases in activation/deactivation of catalytic systems: O-NHC coupling in M/NHC catalysis. <i>Chemical Science</i> , <b>2018</b> , 9, 5564-5577	9.4	44
21	Ionic Liquids As Tunable Toxicity Storage Media for Sustainable Chemical Waste Management. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 719-726	8.3	24
20	A solid acetylene reagent with enhanced reactivity: fluoride-mediated functionalization of alcohols and phenols. <i>Green Chemistry</i> , <b>2017</b> , 19, 3032-3041	10	50
19	A New Mode of Operation of Pd-NHC Systems Studied in a Catalytic Mizoroki-Hiyama Reaction. <i>Organometallics</i> , <b>2017</b> , 36, 1981-1992	3.8	97
18	Three-Dimensional Printing with Biomass-Derived PEF for Carbon-Neutral Manufacturing. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15931-15935	16.4	76
17	Three-Dimensional Printing with Biomass-Derived PEF for Carbon-Neutral Manufacturing. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 16147-16151	3.6	18
16	Reaktitelbild: Three-Dimensional Printing with Biomass-Derived PEF for Carbon-Neutral Manufacturing (Angew. Chem. 50/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 16308-16308	3.6	
15	Direct Observation of Self-Organized Water-Containing Structures in the Liquid Phase and Their Influence on 5-(Hydroxymethyl)furfural Formation in Ionic Liquids. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 2201-2206	3.6	7
14	Direct Observation of Self-Organized Water-Containing Structures in the Liquid Phase and Their Influence on 5-(Hydroxymethyl)furfural Formation in Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 2161-6	16.4	72
13	Modern electron microscopy in the study of chemical systems at the boundary of organic synthesis and catalysis. <i>Russian Chemical Reviews</i> , <b>2016</b> , 85, 1198-1214	6.8	19
12	Nature of the Copper-Oxide-Mediated C <sub>3</sub> Cross-Coupling Reaction: Leaching of Catalytically Active Species from the Metal Oxide Surface. <i>ACS Catalysis</i> , <b>2016</b> , 6, 3637-3643	13.1	35
11	Spatial imaging of carbon reactivity centers in Pd/C catalytic systems. <i>Chemical Science</i> , <b>2015</b> , 6, 3302-3304	3.4	43
10	Size effect of Pd nanoparticles in the selective liquid-phase hydrogenation of diphenylacetylene. <i>Kinetics and Catalysis</i> , <b>2015</b> , 56, 733-740	1.5	11
9	Nano-Structured Metal Chalcogenides as Reagents for the Catalytic Carbon-Sulfur Bond Formation in Cross-Coupling Reaction. <i>Topics in Catalysis</i> , <b>2013</b> , 56, 1246-1252	2.3	6

8	Catalytic C-C and C-heteroatom bond formation reactions: in situ generated or preformed catalysts? Complicated mechanistic picture behind well-known experimental procedures. <i>Journal of Organic Chemistry</i> , <b>2013</b> , 78, 11117-25	4.2	114
7	Target-oriented analysis of gaseous, liquid and solid chemical systems by mass spectrometry, nuclear magnetic resonance spectroscopy and electron microscopy. <i>Russian Chemical Reviews</i> , <b>2013</b> , 82, 648-685	6.8	169
6	Efficient general procedure to access a diversity of gold(0) particles and gold(I) phosphine complexes from a simple H <sub>2</sub> AuCl <sub>4</sub> source. Localization of homogeneous/heterogeneous system's interface and field-emission scanning electron microscopy study. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 3550-9	16.4	29
5	A SEM study of nanosized metal films and metal nanoparticles obtained by magnetron sputtering. <i>Russian Chemical Bulletin</i> , <b>2011</b> , 60, 2602-2607	1.7	116
4	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. <i>Synlett</i> , <b>2011</b> , 2011, 2021-2024	2.2	14
3	meso-substituted polymethine dyes as efficient spectral and fluorescent probes for biomacromolecules. <i>High Energy Chemistry</i> , <b>2010</b> , 44, 224-227	0.9	9
2	Spectral and fluorescent study of the interaction of anionic cyanine dyes with serum albumins. <i>High Energy Chemistry</i> , <b>2009</b> , 43, 480-488	0.9	8
1	Oxidation of cycloalkanones with hydrogen peroxide: an alternative route to the Baeyer-Villiger reaction. Synthesis of dicarboxylic acid esters. <i>Tetrahedron</i> , <b>2008</b> , 64, 7944-7948	2.4	33