Mikhail G Sulman

List of Publications by Year
in descending order

103	2,152	236925 25	254184 43
papers	citations	h-index	g-index

105	105	105	2249
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Palladium Nanoparticles by Electrospinning from Poly(acrylonitrile-co-acrylic acid)â^'PdCl2 Solutions. Relations between Preparation Conditions, Particle Size, and Catalytic Activity. Macromolecules, 2004, 37, 1787-1792.	4.8	279
2	Structure and Properties of Bimetallic Colloids Formed in Polystyrene-block-Poly-4-vinylpyridine Micelles: Catalytic Behavior in Selective Hydrogenation of Dehydrolinalool. Journal of Catalysis, 2000, 196, 302-314.	6.2	112
3	Design of ruthenium/iron oxide nanoparticle mixtures for hydrogenation of nitrobenzene. Catalysis Science and Technology, 2015, 5, 1902-1910.	4.1	104
4	Functionalization of Monodisperse Iron Oxide NPs and Their Properties as Magnetically Recoverable Catalysts. Langmuir, 2013, 29, 466-473.	3.5	91
5	Fabrication of Magnetically Recoverable Catalysts Based on Mixtures of Pd and Iron Oxide Nanoparticles for Hydrogenation of Alkyne Alcohols. ACS Applied Materials & Interfaces, 2014, 6, 21652-21660.	8.0	85
6	Polyphenylenepyridyl Dendrons with Functional Periphery and Focal Points: Syntheses and Applications. Macromolecules, 2013, 46, 5890-5898.	4.8	80
7	Structure and Catalytic Properties of Pt-Modified Hyper-Cross-Linked Polystyrene Exhibiting Hierarchical Porosity. Journal of Physical Chemistry B, 2004, 108, 18234-18242.	2.6	77
8	Selective dehydrolinalool hydrogenation with poly(ethylene oxide)-block-poly-2-vinylpyridine micelles filled with Pd nanoparticles. Journal of Molecular Catalysis A, 2004, 208, 273-284.	4.8	66
9	Mesoporous Alumina and Aluminosilica with Pd and Pt Nanoparticles:â€‰ Structure and Catalytic Properties. Chemistry of Materials, 2003, 15, 2623-2631.	6.7	55
10	<scp>d</scp>-Glucose Hydrogenation over Ru Nanoparticles Embedded in Mesoporous Hypercrosslinked Polystyrene. Journal of Physical Chemistry A, 2013, 117, 4073-4083.	2.5	51
11	Ru-Containing Magnetically Recoverable Catalysts: A Sustainable Pathway from Cellulose to Ethylene and Propylene Glycols. ACS Applied Materials & Interfaces, 2016, 8, 21285-21293.	8.0	51
12	Thermosensitive Imidazole-Containing Polymers as Catalysts in Hydrolytic Decomposition ofp-Nitrophenyl Acetate. Macromolecules, 2004, 37, 7879-7883.	4.8	48
13	Catalytic properties of Ru nanoparticles introduced in a matrix of hypercrosslinked polystyrene toward the low-temperature oxidation of d-glucose. Journal of Molecular Catalysis A, 2007, 278, 112-119.	4.8	46
14	The liquid phase catalytic hydrogenation of furfural to furfuryl alcohol. Catalysis Today, 2019, 329, 142-148.	4.4	40
15	Influence of aluminosilicate materials on the peat low-temperature pyrolysis and gas formation. Chemical Engineering Journal, 2009, 154, 355-360.	12.7	35
16	Stearic acid hydrodeoxygenation over Pd nanoparticles embedded in mesoporous hypercrosslinked polystyrene. Journal of Industrial and Engineering Chemistry, 2017, 46, 426-435.	5.8	35
17	Efficient polymer-based nanocatalysts with enhanced catalytic performance in wet air oxidation of phenol. Applied Catalysis B: Environmental, 2010, 94, 200-210.	20.2	34
18	Effect of ultrasonic pretreatment on the composition of lignocellulosic material in biotechnological processes. Catalysis in Industry, 2011, 3, 28-33.	0.7	30

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19	Kinetic study of selective hydrogenation of 2-methyl-3-butyn-2-ol over Pd-containing hypercrosslinked polystyrene. Catalysis Today, 2015, 256, 231-240.	4.4	29
20	Density Functional Theory Investigation on the Nucleation and Growth of Small Palladium Clusters on a Hyper-Cross-Linked Polystyrene Matrix. Journal of Physical Chemistry C, 2014, 118, 21006-21013.	3.1	28
21	Kinetics of phenol oxidation over hypercrosslinked polystyrene impregnated with Pt nanoparticles. Chemical Engineering Journal, 2007, 134, 256-261.	12.7	27
22	Enantioselective catalytic hydrogenation of activated ketones using polymer-containing nanocomposites. Catalysis Today, 2009, 140, 64-69.	4.4	27
23	Kinetics of phenol hydrogenation over Pd-containing hypercrosslinked polystyrene. Chemical Engineering Journal, 2011, 176-177, 33-41.	12.7	27
24	Au Coreâ€“Pd Shell Bimetallic Nanoparticles Immobilized within Hyper-Cross-Linked Polystyrene for Mechanistic Study of Suzuki Cross-Coupling: Homogeneous or Heterogeneous Catalysis?. Organic Process Research and Development, 2018, 22, 1606-1613.	2.7	26
25	Effects of ultrasound on catalytic processes. Russian Chemical Reviews, 2000, 69, 165-177.	6.5	25
26	Pd(ii) nanoparticles in porous polystyrene: factors influencing the nanoparticle size and catalytic properties. Journal of Materials Chemistry, 2012, 22, 6441.	6.7	24
27	Kinetics of Lactose Hydrogenation over Ruthenium Nanoparticles in Hypercrosslinked Polystyrene. Industrial & Engineering Chemistry Research, 2013, 52, 14066-14080.	3.7	22
28	Zinc-Containing Magnetic Oxides Stabilized by a Polymer: One Phase or Two?. ACS Applied Materials & Interfaces, 2016, 8, 891-899.	8.0	22
29	Hydrophobic Periphery Tails of Polyphenylenepyridyl Dendrons Control Nanoparticle Formation and Catalytic Properties. Chemistry of Materials, 2014, 26, 5654-5663.	6.7	20
30	Pd-Nanoparticles Confined Within Hollow Polymeric Framework as Effective Catalysts for the Synthesis of Fine Chemicals. Topics in Catalysis, 2016, 59, 1185-1195.	2.8	19
31	Hydrolytic hydrogenation of cellulose in subcritical water with the use of the Ru-containing polymeric catalysts. Catalysis Today, 2017, 280, 45-50.	4.4	19
32	Catalytic syntheses of 2-methyl-1,4-naphthoquinone in conventional solvents and supercritical carbon dioxide. Chemical Engineering Journal, 2014, 238, 206-209.	12.7	18
33	Catalysts of Suzuki Cross-Coupling Based on Functionalized Hyper-cross-linked Polystyrene: Influence of Precursor Nature. Organic Process Research and Development, 2016, 20, 1453-1460.	2.7	18
34	Phenol Catalytic Wet Air Oxidation Over Ru Nanoparticles Formed in Hypercrosslinked Polystyrene. Topics in Catalysis, 2013, 56, 688-695.	2.8	17
35	Enhancing the Catalytic Activity of Zn-Containing Magnetic Oxides in a Methanol Synthesis: Identifying the Key Factors. ACS Applied Materials & Interfaces, 2017, 9, 2285-2294.	8.0	17
36	Pyridylphenylene dendrons immobilized on the surface of chemically modified magnetic silica as efficient stabilizing molecules of Pd species. Applied Surface Science, 2019, 488, 865-873.	6.1	17

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37	Pd Catalyst Based on Hyperbranched Polypyridylphenylene Formed In Situ on Magnetic Silica Allows for Excellent Performance in Suzukiâ€“Miyaura Reaction. ACS Applied Materials & Interfaces, 2020, 12, 22170-22178.	8.0	17
38	Metal-Ion Distribution and Oxygen Vacancies That Determine the Activity of Magnetically Recoverable Catalysts in Methanol Synthesis. ACS Applied Materials & Interfaces, 2017, 9, 34005-34014.	8.0	16
39	Promotion Effect of Alkali Metal Hydroxides on Polymer-Stabilized Pd Nanoparticles for Selective Hydrogenation of Câ€“C Triple Bonds in Alkynols. Industrial & Engineering Chemistry Research, 2017, 56, 13219-13227.	3.7	16
40	Efficient Furfuryl Alcohol Synthesis from Furfural over Magnetically Recoverable Catalysts: Does the Catalyst Stabilizing Medium Matter?. ChemistrySelect, 2017, 2, 5485-5491.	1.5	16
41	Cellulose Conversion Into Hexitols and Glycols in Water: Recent Advances in Catalyst Development. Frontiers in Chemistry, 2019, 7, 834.	3.6	15
42	Mono- and bimetallic (Ru-Co) polymeric catalysts for levulinic acid hydrogenation. Catalysis Today, 2021, 378, 167-175.	4.4	15
43	Nanosized catalysts as a basis for intensifications of technologies. Chemical Engineering and Processing: Process Intensification, 2011, 50, 1041-1053.	3.6	14
44	Î³-Fe2O3 nanoparticle surface controls PtFe nanoparticle growth and catalytic properties. Nanoscale, 2013, 5, 2921.	5.6	14
45	Ru-Containing Polymeric Catalysts for Cellulose Conversion to Polyols. Topics in Catalysis, 2014, 57, 1476-1482.	2.8	14
46	Ni catalyst synthesized by hydrothermal deposition on the polymeric matrix in the supercritical deoxygenation of fatty acids. Reaction Kinetics, Mechanisms and Catalysis, 2018, 125, 213-226.	1.7	13
47	Selective Hydrogenation of Biomassâ€Derived Furfural: Enhanced Catalytic Performance of Pdâ^'Cu Alloy Nanoparticles in Porous Polymer. ChemPlusChem, 2020, 85, 1697-1703.	2.8	13
48	Direct d-Glucose Oxidation over Noble Metal Nanoparticles Introduced on Polymer and Inorganic Supports. Topics in Catalysis, 2009, 52, 387-393.	2.8	12
49	Influence of metals chlorides on oil-slime thermocatalytic processing. Chemical Engineering Journal, 2014, 238, 219-226.	12.7	12
50	Kinetic Modelling of Levulinic Acid Hydrogenation Over Ru-Containing Polymeric Catalyst. Topics in Catalysis, 2020, 63, 243-253.	2.8	12
51	Influence of heterogenization on catalytic behavior of mono- and bimetallic nanoparticles formed in poly(styrene)-block-poly(4-vinylpyridine) micelles. Journal of Catalysis, 2009, 262, 150-158.	6.2	11
52	Hydrogenation of levulinic acid using Ru-containing catalysts based on hypercrosslinked polystyrene. Green Processing and Synthesis, 2017, 6, 281-286.	3.4	11
53	Catalytic performance of the modified H-ZSM-5 zeolite in methanol transformation to hydrocarbons. Reaction Kinetics, Mechanisms and Catalysis, 2018, 124, 807-822.	1.7	11
54	Fatty Acid Deoxygenation in Supercritical Hexane over Catalysts Synthesized Hydrothermally for Biodiesel Production. Chemical Engineering and Technology, 2019, 42, 780-787.	1.5	11

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55	Study of Deactivation in Suzuki Reaction of Polymer-Stabilized Pd Nanocatalysts. Processes, 2020, 8, 1653.	2.8	11
56	Catalytic Hydrodeoxygenation of Fatty Acids for Biodiesel Production. Bulletin of Chemical Reaction Engineering and Catalysis, 2016, 11, 125-132.	1.1	11
57	Structure and behavior of nanoparticulate catalysts based on ultrathin chitosan layers. Journal of Molecular Catalysis A, 2007, 276, 116-129.	4.8	10
58	Nanosized catalysts in fine organic synthesis as a basis for developing innovative technologies in the pharmaceutical industry. Nanotechnologies in Russia, 2009, 4, 647-664.	0.7	10
59	Hydrodeoxygenation of stearic acid for the production of â€œgreenâ€•diesel. Green Processing and Synthesis, 2014, 3, 441-446.	3.4	9
60	Magnetically recoverable catalysts for the conversion of inulin to mannitol. Energy, 2018, 154, 1-6.	8.8	9
61	Pd Nanoparticles Stabilized by Hypercrosslinked Polystyrene Catalyze Selective Triple C-C Bond Hydrogenation and Suzuki Cross-Coupling. Journal of Nanomaterials, 2019, 2019, 1-7.	2.7	9
62	Ru@hyperbranched Polymer for Hydrogenation of Levulinic Acid to Gamma-Valerolactone: The Role of the Catalyst Support. International Journal of Molecular Sciences, 2022, 23, 799.	4.1	9
63	Nanosized Pt-, Ru-, and Pd-containing catalysts for organic synthesis and solution of environmental issues. Catalysis in Industry, 2011, 3, 260-270.	0.7	8
64	Petroleum-containing residue processing via co-catalyzed pyrolysis. Fuel, 2017, 198, 159-164.	6.4	8
65	Insights into Sustainable Glucose Oxidation Using Magnetically Recoverable Biocatalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 9845-9853.	6.7	8
66	Novel Nano Catalysts on the Base of Hyper-crosslinked Polystyrene for Carbohydrates Oxidation. Studies in Surface Science and Catalysis, 2006, , 119-126.	1.5	7
67	Polymer-based bifunctional catalysts for anthracene hydrocracking in the medium of supercritical propanol-2. Catalysis Today, 2021, 378, 158-166.	4.4	7
68	Influence of the Mesoporous Polymer Matrix Nature on the Formation of Catalytically Active Ruthenium Nanoparticles. Bulletin of Chemical Reaction Engineering and Catalysis, 2015, 10, .	1.1	6
69	Investigating the catalytic hydrogenation of nitrobenzene in supercritical carbon dioxide using Pd-containing catalysts. Catalysis in Industry, 2015, 7, 1-5.	0.7	6
70	Synthesis of 4-Methoxybiphenyl Using Pd-Containing Catalysts Based on Polymeric Matrix of Functionalized Hypercrosslinked Polystyrene. Bulletin of Chemical Reaction Engineering and Catalysis, 2015, 10, .	1.1	5
71	Comparison of methanol to gasoline conversion in one-step, two-step, and cascade mode in the presence of H-ZSM-5 zeolite. International Journal of Sustainable Energy, 2018, 37, 970-977.	2.4	5
72	Dendritic effect for immobilized pyridylphenylene dendrons in hosting catalytic Pd species: Positive or negative?. Reactive and Functional Polymers, 2020, 151, 104582.	4.1	5

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73	Biocatalitic Oxidation of 2,3,6-Trimethylphenol Over Immobilized Horseradish Peroxidase in Nonaqueous Media. Topics in Catalysis, 2011, 54, 1309-1317.	2.8	4
74	Catalytic nitrobenzene hydrogenation in supercritical carbon dioxide. Russian Journal of Physical Chemistry B, 2014, 8, 958-962.	1.3	4
75	Crâ€“Containing Magnetic Oxides in a Methanol Synthesis: Does Cr Ion Distribution Matter?. ChemistrySelect, 2017, 2, 6269-6276.	1.5	4
76	Study of the Structure of Cobalt-Containing Catalysts Synthesized under Subcritical Conditions. Kinetics and Catalysis, 2019, 60, 618-626.	1.0	4
77	Kinetic Study of the Catalytic Pyrolysis of Oil-Containing Waste. Bulletin of Chemical Reaction Engineering and Catalysis, 2016, 11, 330.	1.1	4
78	Kinetic Modeling for the â€œOne-Potâ€•Hydrogenolysis of Cellulose to Glycols over Ru@Fe3O4/Polymer Catalyst. Reactions, 2022, 3, 1-11.	2.1	4
79	Hydrogenation of a Benzeneâ€Toluene Mixture Using Metal Nanoparticles Stabilized by a Hyperâ€Crosslinked Aromatic Polymer. Chemical Engineering and Technology, 2021, 44, 1955-1961.	1.5	3
80	Noble Metal Nanoparticles Stabilized by Hyper-Cross-Linked Polystyrene as Effective Catalysts in Hydrogenation of Arenes. Molecules, 2021, 26, 4687.	3.8	3
81	Liquid-phase synthesis of methanol using industrial copper-zinc catalyst. Catalysis in Industry, 2014, 6, 143-149.	0.7	2
82	Adsorption Processes for the Synthesis ofÂCatalytically Active Metal Nanoparticles in Polymeric Matrices. Chemical Engineering and Technology, 2015, 38, 683-689.	1.5	2
83	Ru-doped transition metal catalysts for liquid-phase Fischerâ€“Tropsch synthesis. Reaction Kinetics, Mechanisms and Catalysis, 2020, 130, 813-823.	1.7	2
84	Magnetically separable Ru-containing catalysts in supercritical deoxygenation of fatty acids. Pure and Applied Chemistry, 2020, 92, 817-826.	1.9	2
85	Mono- and Bimetallic Nanoparticles Stabilized by an Aromatic Polymeric Network for a Suzuki Cross-Coupling Reaction. Nanomaterials, 2022, 12, 94.	4.1	2
86	Structured polyphenylenes as carriers of palladium nanoparticles used as selective hydrogenation catalysts. Polymer Science - Series B, 2010, 52, 49-56.	0.8	1
87	D-glucose catalytic oxidation over palladium nanoparticles introduced in the hypercrosslinked polystyrene matrix. Green Processing and Synthesis, 2013, 2, .	3.4	1
88	Isolation of shikimic acid from Picea abies needles. The future prospects. IOP Conference Series: Earth and Environmental Science, 2019, 316, 012048.	0.3	1
89	Nanostructured metallopolymer catalysts in fine organic synthesis. Catalysis in Industry, 2010, 2, 11-19.	0.7	0
90	Prospects for the development of oxidative catalysis (On the materials of the ninth international) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	0.7	0

#	Article	IF	Citations
91	â€œBiotechnology: State of the Art and Prospects of Developmentâ€•Fifth international congress (March) Tj ETQq1 1 0.784314 rgBT /C	0.7	0
92	Catalytic pyrolysis of peat with additions of oil-slime and polymeric waste. , 2012, , .		0
93	Cellulose conversion into polyols. AIP Conference Proceedings, 2018, , .	0.4	0
94	Magnetically Recoverable Ruthenium-Containing Catalysts for Polysaccharide Conversion. Catalysis in Industry, 2018, 10, 251-256.	0.7	0
95	Synthesisâ€Gas Absorption under Real Process Conditions: Thermodynamic Aspects. Chemical Engineering and Technology, 2019, 42, 805-811.	1.5	0
96	Alkane production from unsaturated fatty acids over transition metal dopped Pd catalysts. Chemical Engineering and Technology, 2021, 44, 2109.	1.5	0
97	Selective Hydrogenation of Dehydrolinalool to Linalool Using Nanostructured Pd-Polymeric Composite Catalysts. Chemical Industries, 2006, , .	0.1	0
98	Zn/Cu SORBENT SYNTHESIS FOR SYN-GAS PURIFICATION FROM HYDROGEN SULFIDE. ChemChemTech, 2017, 60, 61.	0.3	0
99	MODIFICATION OF ALUMOSILICATE H-ZSM-5 AND INVESTIGATION OF ITS CATALYTIC ACTIVITY IN TRANSFORMATION PROCESS OF METHANOL TO HYDROCARBONS. ChemChemTech, 2018, 59, 79.	0.3	0
100	VAPOR GASIFICATION OF LOW QUALITY SOLID FUEL OF TVER REGION. ChemChemTech, 2018, 59, 69.	0.3	0
101	PECULIARITIES OF SMALL STRAINED ALICYCLE COMPOUNDS FORMATION IN CATALYTIC TRANSFORMATION OF METHANOL OVER ZEOLITE H-ZSM-5. ChemChemTech, 2018, 61, 74-80.	0.3	0
102	RU-CONTAINING CATALYSTS FOR CELLULOSE CONVERSION INTO SORBITOL AND GLYCOLS. , 2019, , .		0
103	MAGNETICALLY RECOVERABLE POLYMER CATALYST FOR CELLULOSE HYDROGENOLYSIS. ChemChemTech, 2020, 63, 59-63.	0.3	0