Zinaida B Shifrina

List of Publications by Citations

51 papers	1,146 citations	17 h-index	32 g-index
54 ext. papers	1,303 ext. citations	7.4 avg, IF	4.8 L-index

#	Paper	IF	Citations
51	Dendrimers as encapsulating, stabilizing, or directing agents for inorganic nanoparticles. *Chemical Reviews*, **2011**, 111, 5301-44	68.1	244
50	Role of Polymer Structures in Catalysis by Transition Metal and Metal Oxide Nanoparticle Composites. *Chemical Reviews*, **2020**, 120, 1350-1396	68.1	91
49	Poly(Phenylene-pyridyl) Dendrimers: Synthesis and Templating of Metal Nanoparticles. *Macromolecules*, **2005**, 38, 9920-9932	5.5	80
48	Polyphenylenepyridyl Dendrons with Functional Periphery and Focal Points: Syntheses and Applications. *Macromolecules*, **2013**, 46, 5890-5898	5.5	70
47	Branched Polyphenylenes by Repetitive Diels□Alder Cycloaddition. *Macromolecules*, **2000**, 33, 3525-3529	5.5	61
46	Simple and sensitive online detection of triacetone triperoxide explosive. *Sensors and Actuators B: Chemical*, **2010**, 143, 561-566	8.5	59
45	Graphene and graphene-like materials in biomass conversion: paving the way to the future. *Journal of Materials Chemistry A*, **2017**, 5, 25131-25143	13	50
44	Ru-Containing Magnetically Recoverable Catalysts: A Sustainable Pathway from Cellulose to Ethylene and Propylene Glycols. *ACS Applied Materials & Interfaces*, **2016**, 8, 21285-93	9.5	41
43	Water-Soluble Cationic Aromatic Dendrimers and Their Complexation with DNA. *Macromolecules*, **2009**, 42, 9548-9560	5.5	37
42	Disruption of Amyloid Prion Protein Aggregates by Cationic Pyridylphenylene Dendrimers. *Macromolecular Bioscience*, **2016**, 16, 266-75	5.5	27
41	Magnetically Recoverable Catalysts: Beyond Magnetic Separation. *Frontiers in Chemistry*, **2018**, 6, 298	5	27
40	Proof of Concept: Magnetic Fixation of Dendron-Functionalized Iron Oxide Nanoparticles Containing Palladium Nanoparticles for Continuous-Flow Suzuki Coupling Reactions. *ACS Applied Materials & Interfaces*, **2015**, 7, 27254-61	9.5	25
39	Functionalization of magnetic nanoparticles with amphiphilic block copolymers: self-assembled thermoresponsive submicrometer particles. *Langmuir*, **2012**, 28, 4142-51	4	24
38	Zinc-Containing Magnetic Oxides Stabilized by a Polymer: One Phase or Two?. *ACS Applied Materials & Interfaces*, **2016**, 8, 891-9	9.5	19
37	Complexes between cationic pyridylphenylene dendrimers and ovine prion protein: do hydrophobic interactions matter?. *RSC Advances*, **2017**, 7, 16565-16574	3.7	19
36	The effect of size and concentration of nanoparticles on the glass transition temperature of polymer nanocomposites. *RSC Advances*, **2017**, 7, 50113-50120	3.7	19
35	Hydrophobic Periphery Tails of Polyphenylenepyridyl Dendrons Control Nanoparticle Formation and Catalytic Properties. *Chemistry of Materials*, **2014**, 26, 5654-5663	9.6	17

34	Nanoparticles in dendrimers: From synthesis to application. *Nanotechnologies in Russia*, **2009**, 4, 576-608	0.6	15
33	Rigid aromatic dendrimers. *Russian Chemical Reviews*, **2007**, 76, 767-783	6.8	14
32	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	9.5	12
31	Hydrogenation of bio-oil into higher alcohols over Ru/Fe3O4-SiO2 catalysts. *Fuel Processing Technology*, **2017**, 167, 738-746	7.2	12
30	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	9.5	12
29	Efficient Furfuryl Alcohol Synthesis from Furfural over Magnetically Recoverable Catalysts: Does the Catalyst Stabilizing Medium Matter?. *ChemistrySelect*, **2017**, 2, 5485-5491	1.8	12
28	Unusual Structural Morphology of Dendrimer/CdS Nanocomposites Revealed by Synchrotron X-ray Scattering. *Journal of Physical Chemistry C*, **2012**, 116, 8069-8078	3.8	12
27	Multicore iron oxide mesocrystals stabilized by a poly(phenylenepyridyl) dendron and dendrimer: role of the dendron/dendrimer self-assembly. *Langmuir*, **2014**, 30, 8543-50	4	10
26	Metal oxide–zeolite composites in transformation of methanol to hydrocarbons: do iron oxide and nickel oxide matter?. *RSC Advances*, **2016**, 6, 75166-75177	3.7	10
25	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	6.7	9
24	Polyphenylenepyridyl dendrimers as stabilizing and controlling agents for CdS nanoparticle formation. *Nanoscale*, **2012**, 4, 2378-86	7.7	9
23	New monomers and polymers via Diels-Alder cycloaddition. *Macromolecular Symposia*, **2003**, 199, 97-108	0.8	9
22	Aromatic polyimides with flexible and rigid chains. *Russian Chemical Reviews*, **1996**, 65, 599-608	6.8	8
21	Polyphenylene dendrimers with pyridine fragments. *Doklady Chemistry*, **2005**, 400, 34-38	0.8	8
20	Click Synthesis and Electrochemical Behavior of Ferrocenyl-Terminated Pyridylphenylene Dendrimers. *Macromolecules*, **2020**, 53, 2735-2743	5.5	7
19	Pd Catalyst Based on Hyperbranched Polypyridylphenylene Formed In Situ on Magnetic Silica Allows for Excellent Performance in Suzuki-Miyaura Reaction. *ACS Applied Materials & Interfaces*, **2020**, 12, 22170-22178	9.5	7
18	Promising anti-amyloid behavior of cationic pyridylphenylene dendrimers: Role of structural features and mechanism of action. *European Polymer Journal*, **2019**, 116, 20-29	5.2	6
17	Synthesis and electrochemical behaviour of rigid ferrocenyl-terminated pyridylphenylene dendrimers. *Polymer*, **2019**, 173, 34-42	3.9	6

16	Spontaneous formation of nanofilms under interaction of 4th generation pyrydylphenylene dendrimer with proteins. *Polymer*, **2018**, 137, 186-194	3.9	6
15	Competitive reactions in dendriplex and polyplex solutions. *European Polymer Journal*, **2013**, 49, 558-566	5.2	6
14	Synthesis of CdS nanocrystals in the presence of a rigid aromatic dendrimer. *Russian Chemical Bulletin*, **2009**, 58, 862-864	1.7	6
13	Adsorption properties of pyridylphenylene dendrimers. *RSC Advances*, **2017**, 7, 7870-7875	3.7	5
12	Conformational and hydrodynamic parameters of hyperbranched pyridylphenylene polymers. *Polymer International*, **2017**, 66, 583-592	3.3	5
11	Formation of soluble complexes of cationic polypyridylphenylene dendrimers with DNA. *Polymer Science - Series C*, **2010**, 52, 105-110	1.1	4
10	Influence of the Growing Flexible Shell on the Molecular Behavior of Hybrid Dendrimers. *Macromolecules*, **2020**, 53, 9706-9716	5.5	4
9	Diels□Alder Hyperbranched Pyridylphenylene Polymer Fractions as Alternatives to Dendrimers. *Macromolecules*, **2019**, 52, 1882-1891	5.5	4
8	Dendritic effect for immobilized pyridylphenylene dendrons in hosting catalytic Pd species: Positive or negative?. *Reactive and Functional Polymers*, **2020**, 151, 104582	4.6	3
7	Cr□ontaining Magnetic Oxides in a Methanol Synthesis: Does Cr Ion Distribution Matter?. *ChemistrySelect*, **2017**, 2, 6269-6276	1.8	3
6	Thermodynamic properties of pyridine-containing polyphenylene dendrimers of the first-fourth generations. *Russian Chemical Bulletin*, **2011**, 60, 132-138	1.7	3
5	Thermodynamic properties of poly(phenylene-pyridyl) dendrons of the second and the third generations. *Journal of Chemical Thermodynamics*, **2017**, 105, 443-451	2.9	2
4	Ferrocenyl-terminated polyphenylene-type "click" dendrimers as supports for efficient gold and palladium nanocatalysis. *Dalton Transactions*, **2021**, 50, 11852-11860	4.3	2
3	Dendrimers as Antiamyloid Agents.. *Pharmaceutics*, **2022**, 14,	6.4	2
2	The flexibility of periphery enhances the electrochemical reversibility of ferrocenyl-terminated polyphenylene dendrimers. *Polymer*, **2021**, 228, 123929	3.9	1
1	Dendritic polyphenylene framework as a light-harvesting shell for highly emissive [2.2]Paracyclophane core. *Polymer*, **2021**, 124227	3.9	