

Sergei Lomakin

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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.

104 papers	2,131 citations	16 h-index	45 g-index
111 ext. papers	2,282 ext. citations	2 avg, IF	4.57 L-index

#	Paper	IF	Citations
104	Polydimethylsiloxane thermal degradation Part 1. Kinetic aspects. <i>Polymer</i> , 2001 , 42, 2395-2402	3.9	525
103	Polymer layered silicate nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2000 , 279, 1-9	3.9	423
102	Thermal polydimethylsiloxane degradation. Part 2. The degradation mechanisms. <i>Polymer</i> , 2002 , 43, 2011-2015	3.9	375
101	Ecological issue of polymer flame retardancy. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 2449-2462	2.9	83
100	Polymer flame retardancy: A new approach. <i>Journal of Applied Polymer Science</i> , 1998 , 68, 715-725	2.9	47
99	Thermal degradation of biodegradable blends of polyethylene with cellulose and ethylcellulose. <i>Thermochimica Acta</i> , 2011 , 521, 66-73	2.9	46
98	An investigation of the thermal stability and char-forming tendency of cross-linked poly(methyl methacrylate). <i>Polymer Degradation and Stability</i> , 1993 , 41, 229-243	4.7	40
97	Thermal properties of polyethylene/montmorillonite nanocomposites prepared by intercalative polymerization. <i>Journal of Materials Science</i> , 2008 , 43, 1340-1353	4.3	35
96	New aspects of ecologically friendly polymer flame retardant systems. <i>Polymer Degradation and Stability</i> , 1996 , 54, 223-233	4.7	31
95	Thermal degradation and combustion behavior of the polyethylene/clay nanocomposite prepared by melt intercalation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008 , 94, 719-726	4.1	29
94	Morphology, deformation behavior and thermomechanical properties of polypropylene/maleic anhydride grafted polypropylene/layered silicate nanocomposites. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 3836-3850	2.9	27
93	Kinetic study of polypropylene nanocomposite thermo-oxidative degradation. <i>Polymer International</i> , 2005 , 54, 999-1006	3.3	26
92	Characterization of flame-retarded polymer combustion chars by solid-state ¹³ C and ²⁹ Si NMR and EPR. <i>Fire and Materials</i> , 1998 , 22, 61-67	1.8	24
91	Carbonization of Poly(vinyl Alcohol) in Blends with Boron Polyoxide. <i>Doklady Physical Chemistry</i> , 2005 , 403, 154-158	0.8	19
90	The effect of multi-walled carbon nanotubes addition on the thermo-oxidative decomposition and flammability of PP/MWCNT nanocomposites. <i>Journal of Materials Science</i> , 2010 , 45, 633-640	4.3	18
89	Nonwoven blend composites based on poly(3-hydroxybutyrate)/chitosan ultrathin fibers prepared via electrospinning. <i>Polymer Science - Series A</i> , 2016 , 58, 76-86	1.2	17
88	Structural-dynamic characteristics of matrices based on ultrathin poly(3-hydroxybutyrate) fibers prepared via electrospinning. <i>Polymer Science - Series A</i> , 2015 , 57, 131-138	1.2	15

87	The effect of graphite nanoplates on the thermal degradation and combustion of polyethylene. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 128, 275-280	6	14
86	Structural dynamic properties of nonwoven composite mixtures based on ultrafine tissues of poly(3-hydroxybutyrate) with chitosan. <i>Russian Journal of Physical Chemistry B</i> , 2016 , 10, 687-698	1.2	14
85	Effect of external influences on the structural and dynamic parameters of polyhydroxybutyrate-hydroxyvalerate-based biocomposites. <i>Russian Journal of Physical Chemistry B</i> , 2012 , 6, 72-80	1.2	13
84	The youngest natural oil on earth. <i>Doklady Chemistry</i> , 2011 , 438, 144-147	0.8	13
83	Effect of the graphite nanoplatelet size on the mechanical, thermal, and electrical properties of polypropylene/exfoliated graphite nanocomposites. <i>Journal of Applied Polymer Science</i> , 2012 , 128, n/a-n/a	3.9	12
82	Polyethylene-layered silicate nanocomposites: Synthesis, structure, and properties. <i>Nanotechnologies in Russia</i> , 2008 , 3, 330-343	0.6	11
81	Changes in the structural parameters and molecular dynamics of polyhydroxybutyrate-chitosan mixed compositions under external influences. <i>Russian Journal of Physical Chemistry B</i> , 2013 , 7, 225-231	1.2	10
80	Free-radical cross-linking of serum albumin molecules on the surface of magnetite nanoparticles in aqueous dispersion. <i>Colloid Journal</i> , 2013 , 75, 7-13	1.1	10
79	Probe mobility dynamics, crystal structure, and isotope exchange in PHBV and SPEU blend compositions. <i>Doklady Physical Chemistry</i> , 2012 , 446, 176-179	0.8	10
78	Thermal and Physical and Mechanical Properties of Polysulfone Composites with Carbon Nanotubes. <i>Russian Journal of Physical Chemistry B</i> , 2019 , 13, 519-524	1.2	9
77	The effect of multiwalled carbon nanotube dimensions on the morphology, mechanical, and electrical properties of melt mixed polypropylene-based composites. <i>Journal of Applied Polymer Science</i> , 2010 , 117, NA-NA	2.9	9
76	Thermal degradation and combustion of a polypropylene nanocomposite based on organically modified layered aluminosilicate. <i>Polymer Science - Series A</i> , 2006 , 48, 72-84	1.2	9
75	Specific Features of Thermal Degradation of Polypropylene in the Presence of Magnesium Hydroxide. <i>Russian Journal of Applied Chemistry</i> , 2004 , 77, 445-448	0.8	9
74	Ecological aspects of polymer flame retardation. <i>Journal of Vinyl and Additive Technology</i> , 1999 , 5, 12-20	2	9
73	Advances in Nylon 6,6 Flame Retardancy. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1996 , 32, 173-202	3	9
72	The structure, properties, and thermal destruction of biodegradable blends of cellulose and ethylcellulose with synthetic polymers. <i>Russian Journal of Physical Chemistry B</i> , 2012 , 6, 416-424	1.2	8
71	Thermal and Oxydative Stability of PVA and Nylon 6,6. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1994 , 26, 187-194	3	8
70	Kinetics of pulse pyrolysis of carbonaceous feedstock under oscillating temperature conditions. <i>Doklady Chemistry</i> , 2015 , 462, 112-114	0.8	7

69	Innovative type of low flammability varnish based on poly(vinyl alcohol). <i>Polymer Degradation and Stability</i> , 1997 , 57, 279-282	4.7	7
68	New type of ecologically safe flame retardant based on polymer char former. <i>Polymer Degradation and Stability</i> , 1996 , 51, 343-350	4.7	7
67	Flammability Properties of Honeycomb Composites and Phenol-Formaldehyde Resins. <i>ACS Symposium Series</i> , 1995 , 245-255	0.4	7
66	Novel Low Flammable Coating Based on Polyvinyl Alcohol. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1997 , 38, 321-328	3	6
65	Preparation and characteristics of composites based on polypropylene and ultradispersed calcium carbonate. <i>Polymer Science - Series A</i> , 2008 , 50, 1214-1225	1.2	6
64	High-Temperature Thermal Degradation of Polyethylene in an Inorganic Polyoxide Matrix. <i>Doklady Physical Chemistry</i> , 2004 , 398, 231-235	0.8	6
63	New Types of Ecologically Safe Flame Retardant Systems for Polymethylmethacrylate. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1996 , 32, 213-220	3	6
62	Applied Nanotechnology		6
61	Synthesis of an inorganic-organic polymer blend from orthoboric acid and caprolactam. <i>Polymer Science - Series A</i> , 2006 , 48, 228-233	1.2	5
60	Thermal degradation and combustion of polymeric blends. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 3300-3311	2.9	5
59	Thermal Degradation of Polystyrene-Polydimethylsiloxane Blends. <i>Russian Journal of Applied Chemistry</i> , 2003 , 76, 472-482	0.8	5
58	The influence of shear forces on clay modification with oppositely charged polyelectrolytes. <i>Macromolecular Materials and Engineering</i> , 2000 , 279, 10-18	3.9	5
57	Molecular Dynamics Modeling of Polymer Flammability. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 278, 47		5
56	The thermal degradation of net polymethacrylates. <i>Polymer Degradation and Stability</i> , 1992 , 36, 187-198	4.7	5
55	Photoinduced Reactions of Benzophenone in Biaxially Oriented Polypropylene. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 4298-4305	2.8	4
54	Role of Structural Stresses in the Thermodestruction of Supercoiled Cellulose Macromolecules after Nitration. <i>Russian Journal of Physical Chemistry B</i> , 2018 , 12, 36-45	1.2	4
53	Macrokinetic model of pyrolysis of carbonaceous feedstock in a tubular reactor. <i>Doklady Chemistry</i> , 2016 , 467, 76-78	0.8	4
52	Structure and biological properties of sodium and potassium 1-(carboxy)-1-(N-methylamide)-2-(3,5-di-tert-butyl)-4-hydroxyphenyl)-propionates. <i>Russian Journal of Physical Chemistry B</i> , 2013 , 7, 44-49	1.2	4

51	Novel Class of Eco-Flame Retardants Based on the Renewable Raw Materials 2014 , 255-266		4
50	Thermal Degradation and Combustion Behavior of Polypropylene/MWCNT Composites. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 523, 106/[678]-119/[691]	0.5	4
49	Photo- and thermal-oxidative stability of novel material for photovoltaics: MEH-PPV/TNF blends. <i>Renewable Energy</i> , 2008 , 33, 259-261	8.1	4
48	Polypropylene Flame Retardant System Based on Si-SnCl ₂ . <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1996 , 32, 203-211	3	4
47	New Types of Ecologically Safe Flame-Retardant Polymer Systems. <i>ACS Symposium Series</i> , 1995 , 186-198	0.4	4
46	Kinetics of Polyvinyl Alcohol Thermal Degradation in the Compositions with Boron Polyoxide: Part 1. Kinetics of Thermal Degradation. <i>Russian Journal of Physical Chemistry B</i> , 2019 , 13, 374-382	1.2	3
45	Polypropylene composite with carbon nanotubes. <i>Chemical and Petroleum Engineering (English Translation of Khimicheskoe i Neftyanoe Mashinostroyeniye)</i> , 2012 , 47, 741-750	0.6	3
44	Study of the Mechanism of Fire-Retardant Action of Bio Flame Retardant Based on Oxidized Compounds of Cellulose-Containing Biomass. <i>Russian Journal of Physical Chemistry B</i> , 2020 , 14, 1028-1035	1.2	3
43	Influence of the Chemical Nature and Structural Characteristics of Nanofillers on the Mechanism of Polyethylene Pyrolysis. <i>Russian Journal of Physical Chemistry B</i> , 2019 , 13, 825-830	1.2	3
42	Study of antiseptic properties of the flame retardant solution provided by oxidized plant waste with regard to wood staining and mold micromycetes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 525, 012103	0.4	2
41	Modeling of carbonaceous feedstock pyrolysis in a multichannel reactor. <i>Doklady Chemistry</i> , 2016 , 470, 293-296	0.8	2
40	Effective Chemical Methods of Combustion Control: New Threats and New Solutions. <i>Herald of the Russian Academy of Sciences</i> , 2019 , 89, 151-156	0.7	2
39	Solid-phase polycondensation of aspartic acid 1. Kinetics of the process as evidenced by TGA and DSC data. <i>Russian Chemical Bulletin</i> , 2010 , 59, 806-811	1.7	2
38	New Aspects of Ecologically Friendly Polymer Flame Retardant Systems. <i>Polymer-Plastics Technology and Engineering</i> , 1997 , 36, 647-668		2
37	Kinetic analysis of solid-phase polycondensation of aspartic acid. <i>Doklady Physical Chemistry</i> , 2008 , 423, 327-329	0.8	2
36	Enhanced photo and thermal oxidative stability of the charge-transfer complexes of a conjugated polymer. <i>Mendeleev Communications</i> , 2007 , 17, 32-33	1.9	2
35	Thermal stability of native polybutylene terephthalate. <i>Journal of Applied Polymer Science</i> , 2004 , 92, 2351-2356	2.9	2
34	Ecological Aspects of Polymer Flame Retardation. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2000 , 47, 61-78	3	2

33	Pyrolysis and Carbonization of Cross-Linked Poly(methyl methacrylate). <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1995 , 27, 223-230	3	2
32	Polymethacrylate Networks: Thermodynamics and Kinetics of Thermal Degradation. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1996 , 31, 153-170	3	2
31	Pyrolysis and Carbonization of Cross-Linked Poly(methyl methacrylate). <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1996 , 33, 133-140	3	2
30	Thermal degradation of cellulose diacetate. <i>Polymer Science USSR</i> , 1985 , 27, 1917-1926		2
29	Key Engineering Materials, Volume 1		2
28	Kinetics of the Thermal Destruction of Polyvinyl Alcohol in Composites with Boron Polyoxide. Part 2. Analysis of the Products of Thermal Destruction. <i>Russian Journal of Physical Chemistry B</i> , 2019 , 13, 514-518	1.2	1
27	Oxygen-induced free-radical reactions in phenylone nitrated by nitroxide dioxide. <i>Russian Journal of Physical Chemistry B</i> , 2017 , 11, 777-785	1.2	1
26	The effect of graphite nanoslabs on thermal oxidative destruction of polyethylene. <i>Polymer Science - Series D</i> , 2017 , 10, 330-333	0.4	1
25	Formation of 3,3',5,5'-tetra(tert-butyl)diphenylquinone and 3,3',5,5'-tetra(tert-butyl)-4,4'-dihydroxybiphenyl in the reaction of 2-(acetylamino)-3-[3',5'-di(tert-butyl)-4'-hydroxyphenyl]propanoic acid with thionyl chloride. <i>Russian Chemical Bulletin</i> , 2013 , 62, 2265-2265	1.7	1
24	Alkaline hydrolysis of diethyl N-acetylamino(3,5-di-tert-butyl-4-hydroxybenzyl)malonate. <i>Russian Chemical Bulletin</i> , 2009 , 58, 920-925	1.7	1
23	Polymeric flame retardants 2005 , 243-259		1
22	Effect of a carbon black-graphite filler on the thermal degradation of a methylphenylsiloxane polymer. <i>Polymer Science USSR</i> , 1988 , 30, 1952-1959		1
21	Comparative Analysis of Thermal and Physico-Mechanical Properties of Polyethylene Compositions Containing Microcrystalline and Nanofibrillary Cellulose. <i>Russian Journal of Physical Chemistry B</i> , 2021 , 15, 716-723	1.2	1
20	Modeling of carbonaceous feedstock pyrolysis in a countercurrent tubular reactor. <i>Doklady Chemistry</i> , 2017 , 475, 192-195	0.8	0
19	Interaction of Nitrogen Dioxide with Poly-p-Phenylene Terephthalamide (Terlon). <i>Russian Journal of Physical Chemistry B</i> , 2022 , 16, 155-161	1.2	0
18	The Study of Properties and Structure of Polylactide-Graphite Nanoplates Compositions. <i>Polymer Crystallization</i> , 2022 , 2022, 1-9	0.9	0
17	Optimal temperature conditions of carbonaceous feedstock pyrolysis. <i>Doklady Chemistry</i> , 2016 , 470, 302-306	0.8	
16	On the role of branched-chain (autocatalytic) reactions in the carbonaceous feedstock pyrolysis kinetics at oscillating temperature. <i>Doklady Chemistry</i> , 2016 , 471, 362-364	0.8	

- 15 Overall Kinetics of Heat Treatment of Municipal Solid Waste. *Doklady Chemistry*, **2018**, 479, 68-70 0.8
- 14 Analysis of thermal stability of polymer nanocomposites based on polypropylene. *Chemical and Petroleum Engineering (English Translation of Khimicheskoe i Neftyanoe Mashinostroenie)*, **2013**, 49, 333-337 0.6
- 13 Macrokinetics of carbonaceous feedstock pyrolysis in a tubular reactor of variable cross section. *Doklady Chemistry*, **2017**, 477, 254-256 0.8
- 12 Regulation of solid-phase polycondensation of L-aspartic acid. *Doklady Physical Chemistry*, **2009**, 429, 252-254 0.8
- 11 Features of stable radical generation in lignin on exposure to nitrogen dioxide. *Polymer Degradation and Stability*, **2010**, 95, 1177-1182 4.7
- 10 Ecological Aspects of Polymer Flame Retardation. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **1998**, 41, 153-169 3
- 9 New Types of Ecologically Safe Flame Retardant Polymer Systems. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **1996**, 31, 119-129 3
- 8 Thermal degradation of net polymethacrylates based on oligomers with conjugated acetylene groups. *Polymer Degradation and Stability*, **1992**, 37, 217-221 4.7
- 7 Calculation of the thermodynamic properties of the dimethacrylate esters of aliphatic glycols. *Bulletin of the Academy of Sciences of the USSR Division of Chemical Science*, **1980**, 29, 1438-1442
- 6 Study of the kinetics and thermodynamics of thermal breakdown of reticular polymers of dimethacrylic esters of n-Alkalene glycols. *Polymer Science USSR*, **1982**, 24, 2378-2384
- 5 Study of liquid-phase catalytic oxidation of natural renewable raw materials in alkaline media. *IOP Conference Series: Materials Science and Engineering*, 525, 012096 0.4
- 4 Trends on New Biodegradable Blends on the Basis of Copolymers 3-Hydroxybutyrate with Hydroxyvalerate and Segmented Polyetherurethane **2014**, 151-158
- 3 Study of products influence of rice waste liquid-phase catalytic oxidation on growth and plant development. *IOP Conference Series: Materials Science and Engineering*, **2020**, 848, 012108 0.4
- 2 Synergetic flame retardant effect of bio-flame retardant based on oxidized wood in polyesterE compositions. *IOP Conference Series: Materials Science and Engineering*, **2020**, 848, 012109 0.4
- 1 Correction of the Mechanism of Photolysis of Aminoazobenzole According to Kinetic Picosecond Spectroscopy. *Russian Journal of Physical Chemistry B*, **2022**, 16, 24-30 1.2