Galina K Elyashevich

List of Publications by Citations

97 papers	853 citations	17 h-index	22 g-index
103 ext. papers	903 ext. citations	2.3 avg, IF	3.8 L-index

#	Paper	IF	Citations
97	Thermodynamics of crystallization of macromolecules of various degrees of coiling. *Journal of Macromolecular Science - Physics*, **1977**, 13, 255-289	1.4	34
96	New photosensitive polymer composites based on oriented porous polyethylene filled with azobenzene-containing LC mixture: reversible photomodulation of dichroism and birefringence. *Liquid Crystals*, **2008**, 35, 533-539	2.3	32
95	Porous structure, permeability, and mechanical properties of polyolefin microporous films. *Physics of the Solid State*, **2012**, 54, 1907-1916	0.8	29
94	Synthesis and characterization of thin polypyrrole layers on polyethylene microporous films. *European Polymer Journal*, **1999**, 35, 613-620	5.2	29
93	Electrical resistance and diffusion permeability of microporous polyethylene membranes modified with polypyrrole and polyaniline in solutions of electrolytes. *Journal of Membrane Science*, **2002**, 196, 279-287	9.6	26
92	Composite membranes with conducting polymer microtubules as new electroactive and transport systems. *Polymers for Advanced Technologies*, **2002**, 13, 725-736	3.2	26
91	Thermochemical and deformational stability of microporous polyethylene films with polyaniline layer. *Thermochimica Acta*, **2001**, 374, 23-30	2.9	26
90	Structure development in oriented polyethylene films and microporous membranes as monitored by sound propagation. *Journal of Applied Polymer Science*, **2001**, 80, 214-222	2.9	26
89	Capacitance properties and structure of electroconducting hydrogels based on copoly(aniline □ p-phenylenediamine) and polyacrylamide. *Journal of Power Sources*, **2016**, 304, 102-110	8.9	25
88	Effect of polymerization conditions of pyrrole on formation, structure and properties of high gas separation thin polypyrrole films. *Thin Solid Films*, **2002**, 406, 54-63	2.2	25
87	Micro- and nanofiltration membranes on the base of porous polyethylene films. *Desalination*, **2005**, 184, 273-279	10.3	21
86	Photopatternable fluorescent polymer composites based on stretched porous polyethylene and photopolymerizable liquid crystal mixture. *Journal of Materials Chemistry*, **2008**, 18, 691		19
85	Electroactive hydrogels based on poly(acrylic acid) and polypyrrole. *Polymer Science - Series A*, **2011**, 53, 67-74	1.2	18
84	Swelling-contraction of sodium polyacrylate hydrogels in media with various pH values. *Polymer Science - Series A*, **2009**, 51, 550-553	1.2	18
83	Polymer matrix of polyethylene porous films functionalized by electrical discharge plasma. *European Polymer Journal*, **2008**, 44, 2702-2707	5.2	18
82	Photochromic LC□olymer composites containing azobenzene chromophores with thermally stable Z-isomers. *Journal of Materials Chemistry C*, **2014**, 2, 4482-4489	7.1	17
81	Thermal and structural stability of composite systems based on polyaniline deposited on porous polyethylene films. *Polymer Degradation and Stability*, **2006**, 91, 2786-2792	4.7	17

80	Thermodynamics and kinetics of orientational crystallization of flexible-chain polymers. *Advances in Polymer Science*, **1982**, 205-245	1.3	17
79	Polymorphic transformations in poly(vinylidene fluoride) films during orientation. *Polymer Science - Series A*, **2006**, 48, 272-277	1.2	16
78	Porosity of microporous polyethylene membranes modified with polypyrrole and their diffusion permeability to low-molecular weight substances. *Chemical Engineering Journal*, **2000**, 79, 211-217	14.7	16
77	Investigation of gas diffusion through films of fullerene-containing poly(phenylene oxide). *Technical Physics Letters*, **1999**, 25, 555-557	0.7	16
76	Deformation behavior and mechanical properties of hard elastic and porous films of polyethylene. *Macromolecular Symposia*, **1999**, 147, 91-101	0.8	16
75	The effect of a polypyrrole coating on the thermal stability of microporous polyethylene membranes. *European Polymer Journal*, **2003**, 39, 647-654	5.2	15
74	Combined polyethylene-polyaniline membranes. *Journal of Applied Polymer Science*, **1997**, 64, 2665-2666	2.9	14
73	Polyethylene-based composites containing high concentration of quantum dots. *Colloid and Polymer Science*, **2015**, 293, 1545-1551	2.4	11
72	New composite systems on the base of polyethylene porous films covered by polypyrrole and polyacrylic acid. *Journal of Applied Polymer Science*, **2005**, 97, 1410-1417	2.9	11
71	Formation and analysis of a polyimide layer in composite membranes. *Journal of Applied Polymer Science*, **2000**, 75, 1026-1032	2.9	11
70	Quantum dot–polymer composites based on nanoporous polypropylene films with different draw ratios. *European Polymer Journal*, **2016**, 82, 93-101	5.2	10
69	Correlation between IR spectra and electric conductivity of polyethylene-polypyrrole composites. *Polymer Science - Series B*, **2006**, 48, 331-334	0.8	9
68	Orientation of pores in microporous polyethylene films as determined by polarized absorption spectroscopy. *Materials Research Innovations*, **2001**, 4, 301-305	1.9	9
67	Properties of polymer conducting thin layers on the surface of microporous polyethylene films. *Synthetic Metals*, **2001**, 119, 277-278	3.6	9
66	Structure and Time-Dependent Mechanical Behavior of Highly Oriented Polyethylene. *Mechanics of Time-Dependent Materials*, **1999**, 3, 319-334	1.2	9
65	Orientational crystallization and orientational drawing as strengthening methods for polyethylene. *Polymer Engineering and Science*, **1993**, 33, 1341-1351	2.3	9
64	Percolation transitions in porous polyethylene and polypropylene films with lamellar structures. *Polymer Science - Series A*, **2015**, 57, 717-722	1.2	8
63	Photochromic composites based on porous stretched polyethylene filled by nematic liquid crystal mixtures. *Polymers for Advanced Technologies*, **2010**, 21, 100-112	3.2	8

62	Gas transport properties and structural order of poly(4,4?-oxydiphenylene piromelliteimide) in composite membranes. *Separation and Purification Technology*, **1998**, 14, 13-18	8.3	8
61	Electroactive composite systems containing high conductive polymer layers on poly(ethylene) porous films. *Polymers for Advanced Technologies*, **2006**, 17, 700-704	3.2	8
60	Properties of Conducting Composite Systems Containing Polypyrrole Layers on Porous Polyethylene Films. *Russian Journal of Applied Chemistry*, **2005**, 78, 1993-2001	0.8	8
59	Mechanical response and network characterization of conductive polyaniline/polyacrylamide gels. *Materials Chemistry and Physics*, **2017**, 187, 88-95	4.4	7
58	New pH-responsive and electroactive composite systems containing hydrogels and conducting polymers on a porous matrix. *Polymer Science - Series A*, **2012**, 54, 900-908	1.2	7
57	Conducting film-forming composites based on polyaniline-polyimide blends. *Polymer Science - Series A*, **2009**, 51, 311-316	1.2	7
56	Photo-optical properties of polymer composites based on stretched porous polyethylene filled with photoactive cholesteric liquid crystal. *Liquid Crystals*, **2007**, 34, 791-797	2.3	7
55	Swelling behavior and pervaporation properties of new composite membrane systems: Porous polyethylene film-poly(acrylic acid) hydrogel. *Journal of Applied Polymer Science*, **2004**, 94, 1461-1465	2.9	7
54	Colored microporous polyethylene films: effect of porous structure on dye adsorption. *Materials Research Innovations*, **2002**, 6, 34-37	1.9	7
53	Topological structure of microporous oriented polypropylene films. *Physics of the Solid State*, **2015**, 57, 1028-1032	0.8	6
52	Electromechanical Response and Structure of Chitosan–Polyaniline Composite Systems. *Polymer Science - Series A*, **2018**, 60, 322-331	1.2	6
51	Regularities of lamellae ordering in the formation of polypropylene membrane porous structure. *Physics of the Solid State*, **2014**, 56, 396-404	0.8	6
50	Electrochemical activity and structure of new composite systems based on cross-linked polyacrylamide and polyaniline. *Russian Journal of Applied Chemistry*, **2014**, 87, 491-495	0.8	6
49	Barrier properties and structure of inorganic layers at polyaniline–steel interface. *Russian Journal of Applied Chemistry*, **2015**, 88, 1168-1173	0.8	6
48	New polyaniline/chitosan composite systems: Synthesis, structure, and functional properties. *Russian Journal of Applied Chemistry*, **2015**, 88, 1788-1792	0.8	6
47	Disorder-order transition in microporous oriented polyethylene films. *Physics of the Solid State*, **2012**, 54, 1903-1906	0.8	6
46	Surface texture and percolation effects in microporous oriented films of polyolefins. *Physics of the Solid State*, **2012**, 54, 2312-2318	0.8	6
45	Structure of composites prepared via polypyrrole synthesis in supercritical CO2 on microporous polyethylene. *Polymer Science - Series A*, **2006**, 48, 827-840	1.2	6

44	Changes in the Amorphous Phase of Polyethylene upon High Extension. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **1993**, 22, 191-199	3	6
43	Topomorphic states and phase transitions connected with the crystallization of polymers. *Polymer Engineering and Science*, **1980**, 20, 206-211	2.3	6
42	Superlattices of lamellae in microporous oriented polyolefine films. *Physics of the Solid State*, **2013**, 55, 443-449	0.8	5
41	Effect of initiator on the structure of hydrogels of cross-linked polyacrylic acid. *Russian Journal of Applied Chemistry*, **2011**, 84, 2106-2113	0.8	5
40	Properties of multi-layer composite membranes on the base of polyethylene porous films. *Desalination*, **2002**, 144, 21-26	10.3	5
39	Structure and long-term mechanical properties of oriented polyethylene. *Physics of the Solid State*, **2005**, 47, 1020	0.8	5
38	Thermokinetic analysis of polymorphous transformations in the crystallization and orientation of flexible-chain polymers. *Acta Polymerica*, **1990**, 41, 147-152		5
37	Structure and piezoelectric properties of microporous polyvinylidene fluoride films. *Physics of the Solid State*, **2017**, 59, 1041-1046	0.8	4
36	Anticorrosion activity of aniline–aniline-2-sulfonic acid copolymers on the steel surface. *Russian Journal of Applied Chemistry*, **2016**, 89, 432-438	0.8	4
35	Orientation Efforts as Regulatory Factor of Structure Formation in Permeable Porous Poly(vinylidene fluoride) Films. *Chinese Journal of Polymer Science (English Edition)*, **2019**, 37, 1283-1289	3.5	4
34	Self-organization of lamellae and permeability of microporous oriented polypropylene films. *Physics of the Solid State*, **2013**, 55, 1968-1975	0.8	4
33	Hybrid hydrogels based on cross-linked polyacrylic acid and polyvinyl alcohol as electrically controlled artificial muscles. *Russian Journal of Applied Chemistry*, **2016**, 89, 1838-1845	0.8	4
32	Through Permeability of Polyvinylidene Fluoride Piezoactive Porous Films. *Polymer Science - Series A*, **2018**, 60, 734-741	1.2	4
31	Structure and mechanical properties of porous films based on polyethylenes of different molecular masses. *Polymer Science - Series A*, **2013**, 55, 595-602	1.2	3
30	Interaction of Polyaniline with Surface of Carbon Steel. *International Journal of Polymer Science*, **2017**, 2017, 1-9	2.4	3
29	Structure formation, stability, and thermal strain behavior of oriented microporous polypropylene films. *Russian Journal of Applied Chemistry*, **2014**, 87, 1308-1313	0.8	3
28	Structure and electric conductivity of copolymers of aniline and aniline-2-sulfonic acid obtained via chemical oxidative copolymerization. *Polymer Science - Series B*, **2012**, 54, 477-485	0.8	3
27	Features of fluorescence of CdSe/ZnS semiconductor quantum rods in multicomponent solutions with pentylcyanobiphenyl. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2010**, 108, 941-946	0.7	3

26	Ferroelectric liquid crystal composites based on the porous stretched polyethylene films. *Liquid Crystals*, **2010**, 37, 517-525	2.3	3
25	Hydrophilization of porous polyethylene films by cold plasma of different types. *Polymer Science - Series B*, **2009**, 51, 247-255	0.8	3
24	Effect of degree of cross-linking of sodium acrylate hydrogels on their swelling in variously acidic solutions. *Russian Journal of Applied Chemistry*, **2008**, 81, 1818-1820	0.8	3
23	Changes in the Structure and Mechanical Properties of Hard Elastic and Porous Polypropylene Films upon Annealing and Orientation. *Physics of the Solid State*, **2018**, 60, 2019-2025	0.8	3
22	Sorption and Mechanical Properties of Chitosan/Graphene Oxide Composite Systems. *Russian Journal of Applied Chemistry*, **2019**, 92, 415-422	0.8	2
21	Polymer Piezoelements Based on Porous Polyvinylidene Fluoride Films and Contact Electrode Polyaniline Layers. *Physics of the Solid State*, **2020**, 62, 566-573	0.8	2
20	New composite membranes based on crosslinked poly(acrylic acid) and porous polyethylene films. *Polymer Science - Series A*, **2006**, 48, 738-744	1.2	2
19	Phenomenon of superheating in the melting of oriented samples of flexible-chain polymers. *Acta Polymerica*, **1983**, 34, 390-395		2
18	Optical transmission of porous polyolefin films in immersion media. *Journal of Optical Technology (A Translation of Opticheskii Zhurnal)*, **2017**, 84, 481	0.9	2
17	Ordering Effects and Percolation in the Structure Formation Process of the Oriented Polyolefin Porous Films. *Acta Chimica Slovenica*, **2017**, 64, 980-987	1.9	2
16	Electroconducting Polypyrrole Coatings as an Electrode Contact Material on Porous Poly(vinylidene fluoride) Piezofilm. *Polymer Science - Series A*, **2021**, 63, 45-53	1.2	2
15	Light scattering by porous oriented polypropylene films. *Physics of the Solid State*, **2017**, 59, 583-587	0.8	1
14	Behavior of sodium polyacrylate hydrogels in copper sulfate solutions. *Russian Journal of Applied Chemistry*, **2008**, 81, 1648-1651	0.8	1
13	Molecular mobility of poly(vinylidene fluoride) in the anisotropic state. *Polymer Science - Series A*, **2008**, 50, 265-272	1.2	1
12	Dependence of the dielectric constant on the structure of extruded polyvinylidene fluoride films. *Russian Journal of Applied Chemistry*, **2006**, 79, 642-646	0.8	1
11	The effect of a porous polyethylene matrix on the structure and mechanical and deformational properties of electroactive composites. *Mechanics of Composite Materials*, **2006**, 42, 577-586	1.1	1
10	Thermal Transformations of Polyethylene Film and Porous Membrane on Its Basis. *Russian Journal of Applied Chemistry*, **2003**, 76, 1134-1138	0.8	1
9	Electrophysical Properties and Thermal-Deformation Stability of Composites Containing Polyaniline Layers Deposited on Porous Polyethylene Films. *Russian Journal of Applied Chemistry*, **2005**, 78, 478-483	0.8	1

8	Theoretical analysis of the effect of crystallization temperature on structure formation in flexible-chain polymers. *Journal of Macromolecular Science - Physics*, **1990**, 29, 249-261	1.4	1
7	Piezoelectric properties of the oriented porous poly(vynilidene) fluoride films **2020**,		1
6	Piezo-active composite systems based on porous polyvinylidene fluoride films and conducting polymer layers as electrodes. *Physics of Complex Systems*, **2021**, 2, 25-32	0	1
5	Physicochemical Properties and Morphological Features of Modified Chitosan/Polyaniline Composite Films. *Russian Journal of Physical Chemistry A*, **2021**, 95, 193-198	0.7	1
4	Composite materials prepared by phase inversion deposition of polyacrylonitrile onto porous polyethylene films. *Russian Journal of Applied Chemistry*, **2009**, 82, 1447-1455	0.8	
3	Effect of orientation extension on the structure and physicomechanical properties of porous polyethylene films. *Polymer Science - Series A*, **2010**, 52, 1311-1317	1.2	
2	Electrochemical properties of conducting polyethylene-polyacetylene composites. *Russian Journal of Electrochemistry*, **2000**, 36, 23-29	1.2	
1	Theoretical analysis of the processes of heat exchange and relaxation of a polymer melt at the formation of highly oriented polymer films. *Acta Polymerica*, **1991**, 42, 245-250		