

# Valentin M Svetlichnyi

## List of Publications by Citations

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74  
papers

778  
citations

16  
h-index

24  
g-index

75  
ext. papers

867  
ext. citations

1.7  
avg, IF

3.59  
L-index

#	Paper	IF	Citations
74	Thermal properties of bulk polyimides: insights from computer modeling versus experiment. <i>Soft Matter</i> , <b>2014</b> , 10, 1224-32	3.6	54
73	Synthesis and rheological properties of oligoimide/montmorillonite nanocomposites. <i>Polymer</i> , <b>2005</b> , 46, 10866-10872	3.9	50
72	Morphology and mechanical properties of carbon fiber reinforced composites based on semicrystalline polyimides modified by carbon nanofibers. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2008</b> , 39, 85-90	8.4	45
71	Semicrystalline polyimide matrices for composites: Crystallization and properties. <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 83, 2873-2882	2.9	44
70	Crystallization of R-BAPB type polyimide modified by carbon nano-particles. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 789-794	8.6	36
69	Effects of nanofiller morphology and aspect ratio on the rheo-mechanical properties of polyimide nanocomposites. <i>EXPRESS Polymer Letters</i> , <b>2008</b> , 2, 485-493	3.4	35
68	Effect of the SO <sub>2</sub> group in the diamine fragment of polyimides on their structural, thermophysical, and mechanical properties. <i>Polymer Science - Series A</i> , <b>2012</b> , 54, 631-643	1.2	33
67	Compatibilized polyimide (R-BAPS)/BAPS-modified clay nanocomposites with improved dispersion and properties. <i>Polymer</i> , <b>2007</b> , 48, 7130-7138	3.9	27
66	Parameterization of electrostatic interactions for molecular dynamics simulations of heterocyclic polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 912-923	2.6	26
65	Effect of single-walled carbon nanotubes and carbon nanofibers on the structure and mechanical properties of thermoplastic polyimide matrix films. <i>Polymer Science - Series A</i> , <b>2013</b> , 55, 268-278	1.2	22
64	Corrosion protection of galvanized steel by polyimide coatings: EIS and SEM investigations. <i>Progress in Organic Coatings</i> , <b>2011</b> , 72, 269-278	4.8	22
63	Photophysical properties of indolo[3,2-b]carbazoles as a promising class of optoelectronic materials. <i>Semiconductors</i> , <b>2010</b> , 44, 1581-1587	0.7	21
62	Effect of the structure and shape of filler nanoparticles on the physical properties of polyimide composites. <i>Russian Journal of General Chemistry</i> , <b>2010</b> , 80, 2157-2169	0.7	21
61	Photophysical and electrical properties of polyphenylquinolines containing carbazole or indolo[3,2-b]carbazole fragments as new optoelectronic materials. <i>Semiconductors</i> , <b>2011</b> , 45, 1339-1345 <sup>0.7</sup>		19
60	Tribological properties investigation of the thermoplastic elastomers surface with the AFM lateral forces mode. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 256, 012022	0.4	16
59	Modification of films of heat-resistant polyimides by adding hydrosilicate and carbon nanoparticles of various geometries. <i>Russian Journal of General Chemistry</i> , <b>2007</b> , 77, 1158-1163	0.7	16
58	Aromatic polyetherimides as promising fusible film binders. <i>Polymer Engineering and Science</i> , <b>1995</b> , 35, 1321-1324	2.3	14

57	Influence of the Degree of Crystallinity on the Mechanical and Tribological Properties of High-Performance Thermoplastics Over a Wide Range of Temperatures: From Room Temperature up to 250°C. <i>Journal of Macromolecular Science - Physics</i> , <b>2013</b> , 52, 1848-1860	1.4	12
56	Co-poly(urethane-imide)s based on poly[di(ethylene glycol) adipate] and their compositions with thermoplastic polyimide: synthesis and properties. <i>Russian Chemical Bulletin</i> , <b>2020</b> , 69, 369-377	1.7	11
55	Composites of multiblock (segmented) aliphatic poly(ester imide) with zirconia nanoparticles: Synthesis, mechanical properties, and pervaporation behavior. <i>Polymer Science - Series B</i> , <b>2014</b> , 56, 919-928	0.8	11
54	Dynamic mechanical properties, thermal and heat resistance of multiblock co-poly(urethane-imide) films with graphene and tungsten disulfide. <i>Russian Chemical Bulletin</i> , <b>2019</b> , 68, 1603-1612	1.7	10
53	Nanocomposite based on polyamidoimide with hydrosilicate nanoparticles of varied morphology. <i>Russian Journal of Applied Chemistry</i> , <b>2007</b> , 80, 2142-2148	0.8	10
52	High conductivity of defect doped polymers in metal-polymer-metal systems. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2004</b> , 1, 156-159		10
51	Preparation, structure, and pervaporation performance of poly(amide-imide)-sulfonated polyimide composites. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 48197	2.9	9
50	Distribution of zirconia nanoparticles in the matrix of poly(4,4'-oxydiphenylenepyromellitimide). <i>Polymer Science - Series B</i> , <b>2012</b> , 54, 486-495	0.8	9
49	Structural control over conductivity and conduction type in thin films of polyphenylquinones. <i>Semiconductors</i> , <b>2012</b> , 46, 491-495	0.7	9
48	Carbon plastics based on thermoplastic polyimide binders modified with nanoparticles. <i>Polymer Science - Series C</i> , <b>2016</b> , 58, 16-25	1.1	9
47	Heat Resistance and Dynamic Mechanical and Rheological Properties of a Blend of Crystallizing Polymers, Polyimide and Copoly(urethane-imide), at Identical Chemical Structure of the Imide Blocks in the Initial Polymers. <i>Russian Journal of Applied Chemistry</i> , <b>2020</b> , 93, 45-56	0.8	8
46	Carbazole-containing polyphenylquinolines as a basis for optoelectronic materials with white luminescence. <i>Semiconductors</i> , <b>2012</b> , 46, 496-503	0.7	8
45	Spectroscopic study of polyphenylquinolines materials with efficient intramolecular charge transfer. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2013</b> , 114, 737-750	0.7	8
44	Thermally stable polyimide binders from aromatic dianhydrides and acetyl derivatives of aromatic diamines: Formation mechanism. <i>Polymer Engineering and Science</i> , <b>1997</b> , 37, 1381-1386	2.3	8
43	Structure of Composite Based on Polyheteroarylene Matrix and ZrO <sub>2</sub> Nanostars Investigated by Quantitative Nanomechanical Mapping. <i>Polymers</i> , <b>2017</b> , 9,	4.5	7
42	Aromatic polysulfone imides and membranes based on them. <i>Russian Journal of Applied Chemistry</i> , <b>2009</b> , 82, 1033-1040	0.8	7
41	Conducting film-forming composites based on polyaniline-polyimide blends. <i>Polymer Science - Series A</i> , <b>2009</b> , 51, 311-316	1.2	7
40	Photoelectric and electrical properties of soluble polyphenylquinolines containing an oxygen or phenylamine bridge group between quinoline moieties. <i>Semiconductors</i> , <b>2009</b> , 43, 359-364	0.7	7

39	Structure, morphology, and thermal properties of nanocomposites based on polyamido imide and hydrosilicate nanotubes. <i>Russian Journal of Applied Chemistry</i> , <b>2010</b> , 83, 2175-2181	0.8	7
38	Structure and properties of polyimide-bonded magnets processed from prepolymers based on diacetyl derivatives of aromatic diamines and dianhydrides. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 100, 478-485	2.9	7
37	Polyimide bonded magnets: Processing and properties. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 88, 3151-3158	2.9	7
36	Effect of Hard Segment Structure on the Thermomechanical Properties of Polyurethaneimides. <i>Polymer Science - Series A</i> , <b>2019</b> , 61, 142-148	1.2	6
35	High conductivity and supercurrent in superconductor/polymer/superconductor systems. <i>Physica B: Condensed Matter</i> , <b>2005</b> , 359-361, 506-508	2.8	6
34	Copolymers of carbazole- and indolocarbazole-containing phenylquinolines as new materials for electroluminescent devices. <i>Semiconductors</i> , <b>2013</b> , 47, 1058-1067	0.7	5
33	Sensitization of the photoelectric effect in carbazole- and indolocarbazole-containing poly(phenylquinoline)s by benzothiadiazole acceptor molecules. <i>Semiconductors</i> , <b>2014</b> , 48, 1481-1484	0.7	5
32	Molecular characteristics and solution behavior of prepolymers of several polyimides: Effect of synthesis conditions. <i>Polymer Science - Series A</i> , <b>2006</b> , 48, 787-792	1.2	5
31	Multiblock Copoly(urethane/imide)s with the Properties of Thermoplastic Elastomers. <i>Polymer Science - Series C</i> , <b>2020</b> , 62, 90-110	1.1	5
30	Effect of Domain Structure of Segmented Poly(urethane-imide) Membranes with Polycaprolactone Soft Blocks on Dehydration of <i>n</i> -Propanol via Pervaporation. <i>Polymers</i> , <b>2018</b> , 10,	4.5	5
29	Molecular design of optoelectronic structures based on carbazole- and indolocarbazole-containing polyphenylquinolines. <i>High Performance Polymers</i> , <b>2017</b> , 29, 730-749	1.6	4
28	Hydrodynamic, molecular, and conformational characteristics of poly[1,3-bis(3,4-dicarboxyphenoxy)benzene 4,4'-bis(4'-N-phenoxy)-diphenylsulfone]imide in solutions. <i>Polymer Science - Series A</i> , <b>2016</b> , 58, 12-17	1.2	4
27	Nanocomposites based on polyamidoimide and octahedral silsesquioxanes. <i>Russian Journal of Applied Chemistry</i> , <b>2013</b> , 86, 415-422	0.8	4
26	Field emission from metal/polymer construction. <i>Surface and Interface Analysis</i> , <b>2007</b> , 39, 159-160	1.5	4
25	Nanocomposites based on polyimide thermoplastics and magnesium silicate nanoparticles with montmorillonite structure. <i>Russian Journal of Applied Chemistry</i> , <b>2007</b> , 80, 106-109	0.8	4
24	Synthesis and properties of films of a polyimide filled with ferromagnetic nanoparticles. <i>Russian Journal of Applied Chemistry</i> , <b>2006</b> , 79, 1321-1324	0.8	4
23	The Thermal Stability and Mechanical Properties of Non-Segregating Blends of Polyimides with Copoly(Urethane-Imide)s. <i>Key Engineering Materials</i> , <b>2020</b> , 869, 280-295	0.4	3
22	Electrospinning of Aqueous Solutions of a Triethylammonium Salt of Polyamic Acid and Properties of the Nonwoven Polyimide Materials. <i>Russian Journal of Applied Chemistry</i> , <b>2020</b> , 93, 35-44	0.8	3

21	Dynamic mechanical analysis of multiblock (segmental) polyesterimides. <i>Russian Journal of Applied Chemistry</i> , <b>2013</b> , 86, 920-927	0.8	3
20	Optically active polyamidoimides based on amino acids containing cyclohexane fragment. <i>Russian Journal of Applied Chemistry</i> , <b>2015</b> , 88, 1661-1666	0.8	3
19	Thermal aging of carbon- and glass-reinforced plastics based on heat-resistant polyimide binders. <i>Russian Journal of Applied Chemistry</i> , <b>2009</b> , 82, 889-893	0.8	3
18	Synthesis, Heat Resistance, and Mechanical Properties of Cross-Linked UrethaneImide Copolymers Containing Blocks of Two Structurally Different Aliphatic Fragments (Polyether and Polyester) in the Backbone. <i>Russian Journal of Applied Chemistry</i> , <b>2021</b> , 94, 1240-1258	0.8	3
17	Investigation of the Effect of Mono- and Diurethane Units on the Deformation and Strength Properties of Polyurethanimides. <i>Russian Journal of Applied Chemistry</i> , <b>2020</b> , 93, 1491-1497	0.8	3
16	Birefringence in solutions and films of poly[4,4'-bis(4''-N-phenoxy)diphenylsulfon]imide of 1,3 bis(3',4-dicarboxyphenoxy)benzene. <i>Polymer Science - Series A</i> , <b>2017</b> , 59, 193-197	1.2	2
15	Carbon-reinforced plastics based on hybrid polyimide-organosilicon binders. <i>Russian Journal of Applied Chemistry</i> , <b>2013</b> , 86, 1873-1879	0.8	2
14	Effect of thermal aging on the mechanical characteristics of a composite of a polyimide with an organosilicon resin. <i>Russian Journal of Applied Chemistry</i> , <b>2011</b> , 84, 1800-1804	0.8	2
13	Obtainment of Aromatic Polyimide Nanofibers and Materials on Their Basis for Cell Technologies. <i>Polymer Science - Series A</i> , <b>2018</b> , 60, 483-490	1.2	1
12	Conductivity and Density of States of New Polyphenylquinoline. <i>Polymers</i> , <b>2019</b> , 11,	4.5	1
11	Formation of crystalline heteroepitaxial SiC films on Si by carbonization of polyimide LangmuirBlodgett films. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 06GH08	1.4	1
10	Synthesis and Properties of New 2,6-Poly(phenylquinoline)s and Their Composites with 2,1,3-Benzothiadiazole. <i>Polymer Science - Series B</i> , <b>2017</b> , 59, 718-729	0.8	1
9	Production, structure, and mechanical properties of carbon plastics based on a crystallizing polyimide matrix modified by carbon nanofibers. <i>Fibre Chemistry</i> , <b>2008</b> , 40, 392-397	0.6	1
8	Surface structure of semicrystalline polyimide films. <i>Polymer Science - Series A</i> , <b>2008</b> , 50, 299-308	1.2	1
7	Influence of zone stretching on the properties of semicrystalline thermoplastic polyimide. <i>Russian Journal of Applied Chemistry</i> , <b>2006</b> , 79, 1884-1889	0.8	1
6	Investigation of Polyetherimide Melt-Extruded Fibers Modified by Carbon Nanoparticles. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
5	Formation of Highly Conducting Optically Transparent Films with Multigraphene Structure via Carbonization of Polyimide LangmuirBlodgett Films. <i>Technical Physics Letters</i> , <b>2019</b> , 45, 471-474	0.7	
4	Luminescence-kinetic spectroscopy of compound complexes of polyphenylquinolines. <i>Semiconductors</i> , <b>2015</b> , 49, 959-961	0.7	

- 3 Heteroepitaxial growth of SiC films by carbonization of polyimide Langmuir-Blodgett films on Si. *MATEC Web of Conferences*, **2017**, 98, 04002 0.3
- 2 Molecular characteristics and surface layer structure of poly(siloxane imides). *Polymer Science - Series A*, **2007**, 49, 532-537 1.2
- 1 Dimensional effect due to the matrix isolation of luminescent composites of polyphenylquinolines. *Semiconductors*, **2016**, 50, 487-493 0.7