# Valentin M Svetlichnyi

List of Publications by Year
in descending order

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| 75 | 937 | 471371 17 | 526166 27 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 75 | 75 | 75 | 647 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Thermal properties of bulk polyimides: insights from computer modeling versus experiment. Soft Matter, 2014, 10, 1224. | 1.2 | 68 |
| 2 | Semicrystalline polyimide matrices for composites: Crystallization and properties. Journal of Applied Polymer Science, 2002, 83, 2873-2882. | 1.3 | 52 |
| 3 | Synthesis and rheological properties of oligoimide/montmorillonite nanocomposites. Polymer, 2005, 46, 10866-10872. | 1.8 | 52 |
| 4 | Morphology and mechanical properties of carbon fiber reinforced composites based on semicrystalline polyimides modified by carbon nanofibers. Composites Part A: Applied Science and Manufacturing, 2008, 39, 85-90. | 3.8 | 50 |
| 5 | Crystallization of R-BAPB type polyimide modified by carbon nano-particles. Composites Science and Technology, 2007, 67, 789-794. | 3.8 | 43 |
| 6 | Effects of nanofiller morphology and aspect ratio on the rheo-mechanical properties of polyimide nanocomposites. EXPRESS Polymer Letters, 2008, 2, 485-493. | 1.1 | 40 |
| 7 | Effect of the SO2 group in the diamine fragment of polyimides on their structural, thermophysical, and mechanical properties. Polymer Science - Series A, 2012, 54, 631-643. | 0.4 | 37 |
| 8 | Parameterization of electrostatic interactions for molecular dynamics simulations of heterocyclic polymers. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 912-923. | 2.4 | 36 |
| 9 | Effect of single-walled carbon nanotubes and carbon nanofibers on the structure and mechanical properties of thermoplastic polyimide matrix films. Polymer Science - Series A, 2013, 55, 268-278. | 0.4 | 31 |
| 10 | Compatibilized polyimide (R-BAPS)/BAPS-modified clay nanocomposites with improved dispersion and properties. Polymer, 2007, 48, 7130-7138. | 1.8 | 28 |
| 11 | Corrosion protection of galvanized steel by polyimide coatings: EIS and SEM investigations. Progress in Organic Coatings, 2011, 72, 269-278. | 1.9 | 28 |
| 12 | Effect of the structure and shape of filler nanoparticles on the physical properties of polyimide composites. Russian Journal of General Chemistry, 2010, 80, 2157-2169. | 0.3 | 25 |
| 13 | Photophysical properties of indolo[3,2-b]carbazoles as a promising class of optoelectronic materials. Semiconductors, 2010, 44, 1581-1587. | 0.2 | 23 |
| 14 | Tribological properties investigation of the thermoplastic elastomers surface with the AFM lateral forces mode. IOP Conference Series: Materials Science and Engineering, 2017, 256, 012022. | 0.3 | 21 |
| 15 | Modification of films of heat-resistant polyimides by adding hydrosilicate and carbon nanoparticles of various geometries. Russian Journal of General Chemistry, 2007, 77, 1158-1163. | 0.3 | 20 |
| 16 | Photophysical and electrical properties of polyphenylquinolines containing carbazole or indolo[3,2-b]carbazole fragments as new optoelectronic materials. Semiconductors, 2011, 45, 1339-1345. | 0.2 | 20 |
| 17 | Composites of multiblock (segmented) aliphatic poly(ester imide) with zirconia nanoparticles: Synthesis, mechanical properties, and pervaporation behavior. Polymer Science - Series B, 2014, 56, 919-926. | 0.3 | 17 |
| 18 | Co-poly(urethane-imide)s based on poly[di(ethylene glycol) adipate] and their compositions with thermoplastic polyimide: synthesis and properties. Russian Chemical Bulletin, 2020, 69, 369-377. | 0.4 | 16 |

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|---|---|---|---|
| 19 | Aromatic polyetherimides as promising fusible film binders. Polymer Engineering and Science, 1995, 35, 1321-1324. | 1.5 | 15 |
| 20 | Nanocomposite based on polyamidoimide with hydrosilicate nanoparticles of varied morphology. Russian Journal of Applied Chemistry, 2007, 80, 2142-2148. | 0.1 | 15 |
| 21 | 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 250Â°C. Journal of Macromolecular Science - Physics, 2013, 52, 1848-1860. | 0.4 | 14 |
| 22 | Carbon plastics based on thermoplastic polyimide binders modified with nanoparticles. Polymer Science - Series C, 2016, 58, 16-25. | 0.8 | 13 |
| 23 | Dynamic mechanical properties, thermal and heat resistance of multiblock co-poly(urethane-imide) films with graphene and tungsten disulfide. Russian Chemical Bulletin, 2019, 68, 1603-1612. | 0.4 | 13 |
| 24 | High conductivity of defect doped polymers in metalâ€“polymerâ€“metal systems. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 156-159. | 0.8 | 12 |
| 25 | Effect of Domain Structure of Segmented Poly(urethane-imide) Membranes with Polycaprolactone Soft Blocks on Dehydration of n-Propanol via Pervaporation. Polymers, 2018, 10, 1222. | 2.0 | 11 |
| 26 | Multiblock Copoly(urethaneâ€“imide)s with the Properties of Thermoplastic Elastomers. Polymer Science - Series C, 2020, 62, 90-110. | 0.8 | 11 |
| 27 | Heat Resistance and Dynamic Mechanical and Rheological Properties of a Blend of Crystallizing Polymers, Polyimide and Copoly(urethaneâ€”imide), at Identical Chemical Structure of the Imide Blocks in the Initial Polymers. Russian Journal of Applied Chemistry, 2020, 93, 45-56. | 0.1 | 11 |
| 28 | Thermally stable polyimide binders from aromatic dianhydrides and acetyl derivatives of aromatic diamines: Formation mechanism. Polymer Engineering and Science, 1997, 37, 1381-1386. | 1.5 | 10 |
| 29 | Preparation, structure, and pervaporation performance of poly(amideâ€“imide)â€sulfonated polyimide composites. Journal of Applied Polymer Science, 2019, 136, 48197. | 1.3 | 10 |
| 30 | Structure, morphology, and thermal properties of nanocomposites based on polyamido imide and hydrosilicate nanotubes. Russian Journal of Applied Chemistry, 2010, 83, 2175-2181. | 0.1 | 9 |
| 31 | Distribution of zirconia nanoparticles in the matrix of poly(4,4â€²-oxydiphenylenepyromellitimide). Polymer Science - Series B, 2012, 54, 486-495. | 0.3 | 9 |
| 32 | Structural control over conductivity and conduction type in thin films of polyphenylquinones. Semiconductors, 2012, 46, 491-495. | 0.2 | 9 |
| 33 | Structure of Composite Based on Polyheteroarylene Matrix and ZrO2 Nanostars Investigated by Quantitative Nanomechanical Mapping. Polymers, 2017, 9, 268. | 2.0 | 9 |
| 34 | Polyimide bonded magnets: Processing and properties. Journal of Applied Polymer Science, 2003, 88, 3151-3158. | 1.3 | 8 |
| 35 | Aromatic polysulfone imides and membranes based on them. Russian Journal of Applied Chemistry, 2009, 82, 1033-1040. | 0.1 | 8 |
| 36 | Conducting film-forming composites based on polyaniline-polyimide blends. Polymer Science - Series A, 2009, 51, 311-316. | 0.4 | 8 |

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|---|---|---|---|
| 37 | Carbazole-containing polyphenylquinolines as a basis for optoelectronic materials with white luminescence. Semiconductors, 2012, 46, 496-503. | 0.2 | 8 |
| 38 | Spectroscopic study of polyphenylquinolinesâ€"materials with efficient intramolecular charge transfer. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 114, 737-750. | 0.2 | 8 |
| 39 | Structure and properties of polyimide-bonded magnets processed from prepolymers based on diacetyl derivatives of aromatic diamines and dianhydrides. Journal of Applied Polymer Science, 2006, 100, 478-485. | 1.3 | 7 |
| 40 | Photoelectric and electrical properties of soluble polyphenylquinolines containing an oxygen or phenylamine bridge group between quinoline moieties. Semiconductors, 2009, 43, 359-364. | 0.2 | 7 |
| 41 | Effect of Hard Segment Structure on the Thermomechanical Properties of Polyurethaneimides. Polymer Science - Series A, 2019, 61, 142-148. | 0.4 | 7 |
| 42 | High conductivity and supercurrent in superconductorâ€"polymerâ€"superconductor systems. Physica B: Condensed Matter, 2005, 359-361, 506-508. | 1.3 | 6 |
| 43 | Molecular characteristics and solution behavior of prepolymers of several polyimides: Effect of synthesis conditions. Polymer Science - Series A, 2006, 48, 787-792. | 0.4 | 6 |
| 44 | Synthesis, Heat Resistance, and Mechanical Properties of Cross-Linked Urethaneâ€"Imide Copolymers Containing Blocks of Two Structurally Different Aliphatic Fragments (Polyether and Polyester) in the Backbone. Russian Journal of Applied Chemistry, 2021, 94, 1240-1258. | 0.1 | 6 |
| 45 | Field emission from metal/polymer construction. Surface and Interface Analysis, 2007, 39, 159-160. | 0.8 | 5 |
| 46 | Dynamic mechanical analysis of multiblock (segmental) polyesterimides. Russian Journal of Applied Chemistry, 2013, 86, 920-927. | 0.1 | 5 |
| 47 | Copolymers of carbazole- and indolocarbazole-containing phenylquinolines as new materials for electroluminescent devices. Semiconductors, 2013, 47, 1058-1067. | 0.2 | 5 |
| 48 | Sensitization of the photoelectric effect in carbazole- and indolocarbazole-containing poly(phenylquinoline)s by benzothiadiazole acceptor molecules. Semiconductors, 2014, 48, 1481-1484. | 0.2 | 5 |
| 49 | Electrospinning of Aqueous Solutions of a Triethylammonium Salt of Polyamic Acid and Properties of the Nonwoven Polyimide Materials. Russian Journal of Applied Chemistry, 2020, 93, 35-44. | 0.1 | 5 |
| 50 | Synthesis and properties of films of a polyimide filled with ferromagnetic nanoparticles. Russian Journal of Applied Chemistry, 2006, 79, 1321-1324. | 0.1 | 4 |
| 51 | Nanocomposites based on polyimide thermoplastics and magnesium silicate nanoparticles with montmorillonite structure. Russian Journal of Applied Chemistry, 2007, 80, 106-109. | 0.1 | 4 |
| 52 | Effect of thermal aging on the mechanical characteristics of a composite of a polyimide with an organosilicon resin. Russian Journal of Applied Chemistry, 2011, 84, 1800-1804. | 0.1 | 4 |
| 53 | Nanocomposites based on polyamidoimide and octahedral silsesquioxanes. Russian Journal of Applied Chemistry, 2013, 86, 415-422. | 0.1 | 4 |
| 54 | Hydrodynamic, molecular, and conformational characteristics of poly[1,3-bis(3â€²,4-dicarboxyphenoxy)benzene 4,4â€²-bis(4â€³-N-phenoxy)-diphenylsulfone]imide in solutions. Polymer Science - Series A, 2016, 58, 12-17. | 0.4 | 4 |

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|---|---|---|---|
| 55 | Molecular design of optoelectronic structures based on carbazole- and indolocarbazole-containing polyphenylquinolines. High Performance Polymers, 2017, 29, 730-749. | 0.8 | 4 |
| 56 | The Thermal Stability and Mechanical Properties of Non-Segregating Blends of Polyimides with Copoly(Urethane-Imide)s. Key Engineering Materials, 0, 869, 280-295. | 0.4 | 4 |
| 57 | Investigation of the Effect of Mono- and Diurethane Units on the Deformation and Strength Properties of Polyurethanimides. Russian Journal of Applied Chemistry, 2020, 93, 1491-1497. | 0.1 | 4 |
| 58 | Thermal aging of carbon- and glass-reinforced plastics based on heat-resistant polyimide binders. Russian Journal of Applied Chemistry, 2009, 82, 889-893. | 0.1 | 3 |
| 59 | Carbon-reinforced plastics based on hybrid polyimide-organosilicon binders. Russian Journal of Applied Chemistry, 2013, 86, 1873-1879. | 0.1 | 3 |
| 60 | Optically active polyamidoimides based on amino acids containing cyclohexane fragment. Russian Journal of Applied Chemistry, 2015, 88, 1661-1666. | 0.1 | 3 |
| 61 | Investigation of Polyetherimide Melt-Extruded Fibers Modified by Carbon Nanoparticles. Materials, 2021, 14, 7251. | 1.3 | 3 |
| 62 | Birefringence in solutions and films of poly[4,4'-bis(4''-N-phenoxy)diphenylsulfon]imide of 1,3 bis(3',4-dicarboxyphenoxy)benzene. Polymer Science - Series A, 2017, 59, 193-197. | 0.4 | 2 |
| 63 | Formation of crystalline heteroepitaxial SiC films on Si by carbonization of polyimide Langmuirâ€“Blodgett films. Japanese Journal of Applied Physics, 2017, 56, 06GH08. | 0.8 | 2 |
| 64 | Conductivity and Density of States of New Polyphenylquinoline. Polymers, 2019, 11, 934. | 2.0 | 2 |
| 65 | Influence of zone stretching on the properties of semicrystalline thermoplastic polyimide. Russian Journal of Applied Chemistry, 2006, 79, 1884-1889. | 0.1 | 1 |
| 66 | Production, structure, and mechanical properties of carbon plastics based on a crystallizing polyimide matrix modified by carbon nanofibers. Fibre Chemistry, 2008, 40, 392-397. | 0.0 | 1 |
| 67 | Surface structure of semicrystalline polyimide films. Polymer Science - Series A, 2008, 50, 299-308. | 0.4 | 1 |
| 68 | Synthesis and Properties of New 2,6-Poly(phenylquinoline)s and Their Composites with 2,1,3-Benzothiadiazole. Polymer Science - Series B, 2017, 59, 718-729. | 0.3 | 1 |
| 69 | Obtainment of Aromatic Polyimide Nanofibers and Materials on Their Basis for Cell Technologies. Polymer Science - Series A, 2018, 60, 483-490. | 0.4 | 1 |
| 70 | Molecular characteristics and surface layer structure of poly(siloxane imides). Polymer Science - Series A, 2007, 49, 532-537. | 0.4 | 0 |
| 71 | Luminescence-kinetic spectroscopy of compound complexes of polyphenylquinolines. Semiconductors, 2015, 49, 959-961. | 0.2 | 0 |
| 72 | â€œDimensionalâ€•effect due to the matrix isolation of luminescent composites of polyphenylquinolines. Semiconductors, 2016, 50, 487-493. | 0.2 | 0 |

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|---|---|---|---|
| 73 | Heteroepitaxial growth of SiC films by carbonization of polyimide Langmuir-Blodgett films on Si. MATEC Web of Conferences, 2017, 98, 04002. | 0.1 | 0 |
| 74 | Formation of Highly Conducting Optically Transparent Films with Multigraphene Structure via Carbonization of Polyimide Langmuirâ€“Blodgett Films. Technical Physics Letters, 2019, 45, 471-474. | 0.2 | 0 |
| 75 | Formation of branched structure of polyimide macromolecules in the temperatures range below the onset of the thermal destruction. Advanced Material Science, 2019, 4, . | 0.3 | 0 |