

# Anatoli Serghei

## List of Publications by Year in descending order

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86  
papers

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citations

136885

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133188

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docs citations

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times ranked

3699  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reprocessing and Recycling of Highly Cross-Linked Ion-Conducting Networks through Transalkylation Exchanges of C–N Bonds. <i>Journal of the American Chemical Society</i> , 2015, 137, 6078-6083.	6.6	407
2	Electrode polarization and charge transport at solid interfaces. <i>Physical Review B</i> , 2009, 80, .	1.1	233
3	Electrode polarization vs. Maxwell-Wagner-Sillars interfacial polarization in dielectric spectra of materials: Characteristic frequencies and scaling laws. <i>Journal of Chemical Physics</i> , 2015, 142, 194703.	1.2	224
4	Glassy Dynamics and Glass Transition in Nanometric Thin Layers of Polystyrene. <i>Macromolecules</i> , 2010, 43, 9937-9944.	2.2	203
5	Confinement Effects on Crystallization and Curie Transitions of Poly(vinylidene fluoride) in Ultrathin Polymer Films. <i>Macromolecules</i> , 2006, 39, 9385-9387.	2.2	147
6	Glassy Dynamics in Thin Polymer Layers Having a Free Upper Interface. <i>Macromolecules</i> , 2008, 41, 3636-3639.	2.2	141
7	1,2,3-Triazolium-Based Poly(ionic liquid)s with Enhanced Ion Conducting Properties Obtained through a Click Chemistry Polyaddition Strategy. <i>Chemistry of Materials</i> , 2014, 26, 1720-1726.	3.2	121
8	Electrical conductivity and translational diffusion in the 1-butyl-3-methylimidazolium tetrafluoroborate ionic liquid. <i>Journal of Chemical Physics</i> , 2008, 128, 214509.	1.2	115
9	Glassy Dynamics and Glass Transition in Thin Polymer Layers of PMMA Deposited on Different Substrates. <i>Macromolecules</i> , 2010, 43, 7729-7733.	2.2	94
10	Universal scaling of charge transport in glass-forming ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 913-916.	1.3	91
11	Metastable States of Glassy Dynamics, Possibly Mimicking Confinement Effects in Thin Polymer Films. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 810-817.	1.1	85
12	Main-chain 1,2,3-triazolium-based poly(ionic liquid)s issued from AB + AB click chemistry polyaddition. <i>Journal of Polymer Science Part A</i> , 2013, 51, 34-38.	2.5	79
13	Confinement Effects on the Relaxation Time Distribution of the Dynamic Glass Transition in Ultrathin Polymer Films. <i>Macromolecules</i> , 2006, 39, 9385-9387.	2.2	75
14	Enhanced Ionic Conductivity of a 1,2,3-Triazolium-Based Poly(siloxane ionic liquid) Homopolymer. <i>ACS Macro Letters</i> , 2016, 5, 1283-1286.	2.3	70
15	Polypropylene/carbon nanotubes composite materials with enhanced electromagnetic interference shielding performance: Properties and modeling. <i>Composites Part B: Engineering</i> , 2020, 189, 107866.	5.9	65
16	Charge transport and glassy dynamics in imidazole-based liquids. <i>Journal of Chemical Physics</i> , 2008, 129, 234511.	1.2	59
17	The glass transition of thin polymer films in relation to the interfacial dynamics. <i>Journal of Chemical Physics</i> , 2009, 131, 154904.	1.2	58
18	Electrical and thermal properties of polyethylene/silver nanoparticle composites. <i>Polymer Composites</i> , 2013, 34, 778-786.	2.3	55

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19	Confinement-Induced Relaxation Process in Thin Films of Cis-Polyisoprene. <i>Physical Review Letters</i> , 2003, 91, 165702.	2.9	54
20	Fluorinated Poly(ionic liquid) Diblock Copolymers Obtained by Cobalt-Mediated Radical Polymerization-Induced Self-Assembly. <i>ACS Macro Letters</i> , 2017, 6, 121-126.	2.3	54
21	Enhancing Properties of Anionic Poly(ionic liquid)s with 1,2,3-Triazolium Counter Cations. <i>ACS Macro Letters</i> , 2014, 3, 658-662.	2.3	52
22	Poly(vinyl ester 1,2,3-triazolium)s: a new member of the poly(ionic liquid)s family. <i>Chemical Communications</i> , 2015, 51, 3332-3335.	2.2	47
23	Accelerated Solvent- and Catalyst-Free Synthesis of 1,2,3-Triazolium-Based Poly(Ionic Liquid)s. <i>Macromolecular Rapid Communications</i> , 2014, 35, 794-800.	2.0	46
24	Unconventional poly(ionic liquid)s combining motionless main chain 1,2,3-triazolium cations and high ionic conductivity. <i>Polymer Chemistry</i> , 2015, 6, 4299-4308.	1.9	44
25	Pattern formation in thin polystyrene films induced by an enhanced mobility in ambient air. <i>Physical Review E</i> , 2005, 71, 061801.	0.8	42
26	Triethylene glycol-based poly(1,2,3-triazolium acrylate)s with enhanced ionic conductivity. <i>Polymer Chemistry</i> , 2015, 6, 3521-3528.	1.9	40
27	Broadband dielectric studies on the interfacial dynamics enabled by use of nanostructured electrodes. <i>Review of Scientific Instruments</i> , 2008, 79, 026101.	0.6	38
28	1,2,3-Triazolium-Based Poly(ionic liquid)s Obtained Through Click Chemistry Polyaddition. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 2229-2236.	1.1	38
29	Segmental dynamics of polymers during capillary flow into nanopores. <i>Soft Matter</i> , 2010, 6, 1111.	1.2	37
30	1,2,3-Triazolium-based poly(acrylate ionic liquid)s. <i>Polymer</i> , 2014, 55, 3314-3319.	1.8	37
31	Highly cross-linked polyether-based 1,2,3-triazolium ion conducting membranes with enhanced gas separation properties. <i>European Polymer Journal</i> , 2016, 84, 65-76.	2.6	35
32	Fully Biosourced Materials from Combination of Choline Chloride-Based Deep Eutectic Solvents and Guar Gum. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16747-16756.	3.2	34
33	The impact of imidazolium ionic liquids on the properties of nitrile rubber composites. <i>European Polymer Journal</i> , 2014, 53, 139-146.	2.6	32
34	Density Fluctuations and Phase Transitions of Ferroelectric Polymer Nanowires. <i>Small</i> , 2010, 6, 1822-1826.	5.2	31
35	1,2,3-Triazolium-Based Epoxy-Amine Networks: Ion-Conducting Polymer Electrolytes. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1168-1174.	2.0	31
36	Molecular dynamics of hyperbranched polyesters in the confinement of thin films. <i>European Physical Journal E</i> , 2005, 17, 199-202.	0.7	30

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37	Challenges in Glassy Dynamics of Polymers. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 1415-1423.	1.1	30
38	The universal usefulness of stearic acid as surface modifier: applications to the polymer formulations and composite processing. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 96, 1-33.	2.9	28
39	Nanofluidics Approach to Separate between Static and Kinetic Nanoconfinement Effects on the Crystallization of Polymers. <i>Nano Letters</i> , 2015, 15, 4311-4316.	4.5	27
40	Effect of imidazolium ionic liquid type on the properties of nitrile rubber composites. <i>Polymer International</i> , 2013, 62, 1575-1582.	1.6	26
41	Universal behavior for electromagnetic interference shielding effectiveness of polymer based composite materials. <i>Composites Science and Technology</i> , 2022, 221, 109351.	3.8	25
42	Polymer bilayers with enhanced dielectric permittivity and low dielectric losses by Maxwell-Wagner-Sillars interfacial polarization: Characteristic frequencies and scaling laws. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47551.	1.3	24
43	Discrepancies in the characterization of the glass transition in thin films of hyperbranched polyesters. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 3006-3010.	2.4	23
44	Guar gum as biosourced building block to generate highly conductive and elastic ionogels with poly(ionic liquid) and ionic liquid. <i>Carbohydrate Polymers</i> , 2017, 157, 586-595.	5.1	23
45	Expanding the structural variety of poly(1,2,3-triazolium)s obtained by simultaneous 1,3-dipolar Huisgen polyaddition and N-alkylation. <i>Polymer</i> , 2015, 79, 309-315.	1.8	22
46	Cationic and dicationic 1,2,3-triazolium-based poly(ethylene glycol ionic liquid)s. <i>Polymer Chemistry</i> , 2017, 8, 910-917.	1.9	22
47	Broadband dielectric spectroscopy on ultrathin organic layers having one free (upper) interface. <i>Review of Scientific Instruments</i> , 2006, 77, 116108.	0.6	21
48	Probing the effect of anion structure on the physical properties of cationic 1,2,3-triazolium-based poly(ionic liquid)s. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2191-2199.	2.5	21
49	Interfacial polarization in composite materials with spherical fillers: characteristic frequencies and scaling laws. <i>Colloid and Polymer Science</i> , 2014, 292, 1977-1988.	1.0	20
50	Curie Transitions for Attograms of Ferroelectric Polymers. <i>Nano Letters</i> , 2013, 13, 577-580.	4.5	19
51	Pentadecane functionalized graphite oxide sheets as a tool for the preparation of electrical conductive polyethylene/graphite oxide composites. <i>Polymer</i> , 2014, 55, 22-28.	1.8	19
52	Maxwell-Wagner-Sillars interfacial polarization in dielectric spectra of composite materials: Scaling laws and applications. <i>Journal of Composite Materials</i> , 2022, 56, 3197-3217.	1.2	19
53	Properties of Carboxylated Nitrile Rubber/Hydroxylated Composites Containing Imidazolium Ionic Liquids. <i>Macromolecular Symposia</i> , 2014, 341, 7-17.	0.4	17
54	Biosourced 1,2,3-triazolium ionic liquids derived from isosorbide. <i>New Journal of Chemistry</i> , 2016, 40, 740-747.	1.4	17

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55	Partially Biosourced Poly(1,2,3-triazolium)-Based Diblock Copolymers Derived from Levulinic Acid. <i>Macromolecules</i> , 2018, 51, 5820-5830.	2.2	17
56	Molecular dynamics in thin films of isotactic poly(methylmethacrylate) " revisited. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 4330-4333.	1.5	16
57	Two-step formation mechanism of <i>Acetobacter</i> cellulosic biofilm: synthesis of sparse and compact cellulose. <i>Cellulose</i> , 2016, 23, 1087-1100.	2.4	14
58	1,2,3-Triazolium-based linear ionic polyurethanes. <i>Polymer Chemistry</i> , 2017, 8, 5148-5156.	1.9	14
59	Unveiling the Effects of In Situ Layer"Layer Interfacial Reaction in Multilayer Polymer Films via Multilayered Assembly: From Microlayers to Nanolayers. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000076.	1.7	12
60	Investigations of Nitrile Rubber Composites Containing Imidazolium Ionic Liquids. <i>Macromolecular Symposia</i> , 2014, 341, 18-25.	0.4	11
61	Study on Weather Aging of Nitrile Rubber Composites Containing Imidazolium Ionic Liquids. <i>Macromolecular Symposia</i> , 2014, 342, 25-34.	0.4	11
62	Main"chain poly(1,2,3-triazolium hydroxide)s obtained through AA+BB click polyaddition as anion exchange membranes. <i>Polymer International</i> , 2019, 68, 1591-1598.	1.6	11
63	Experimental Protein Molecular Dynamics: Broadband Dielectric Spectroscopy coupled with nanoconfinement. <i>Scientific Reports</i> , 2019, 9, 17988.	1.6	11
64	Voronoi Tessellations in Thin Polymer Blend Films. <i>Macromolecules</i> , 2004, 37, 1691-1692.	2.2	10
65	Chitosan-dithiooxamide-grafted rGO sheets decorated with Au nanoparticles: Synthesis, characterization and properties. <i>European Polymer Journal</i> , 2016, 78, 153-162.	2.6	9
66	Comparison of poly(ethylene glycol)-based networks obtained by cationic ring opening polymerization of neutral and 1,2,3-triazolium diepoxy monomers. <i>Polymer Chemistry</i> , 2020, 11, 1894-1905.	1.9	9
67	In-situ coupled mechanical/electrical investigations of EPDM/CB composite materials: The electrical signature of the mechanical Mullins effect. <i>Composites Science and Technology</i> , 2022, 218, 109144.	3.8	9
68	A 1,2,3-triazolate lithium salt with ionic liquid properties at room temperature. <i>Chemical Communications</i> , 2018, 54, 9035-9038.	2.2	8
69	Chain conformation in thin polymer layers as revealed by simulations of ideal random walks. <i>European Physical Journal E</i> , 2003, 12, 143-146.	0.7	7
70	Synthesis and characterization of Au-immobilized nanoparticles onto cellulose-ethylenediamine-grafted reduced graphite oxide sheets. <i>Materials Chemistry and Physics</i> , 2016, 171, 303-311.	2.0	7
71	Molecular dynamics in thin (grafted) polymer layers. <i>Colloid and Polymer Science</i> , 2004, 282, 946-954.	1.0	6
72	Nanofluidics with phase separated block-copolymers: Glassy dynamics during capillary flow. <i>European Physical Journal: Special Topics</i> , 2010, 189, 95-101.	1.2	6

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73	Imidazolium-based poly(ionic liquid)/ionic liquid solutions: Rheology, structuration and ionic transport properties. <i>Polymer</i> , 2021, 237, 124305.	1.8	6
74	Enhanced electromagnetic interference shielding effectiveness of polypropylene/hybrid metallic fillers composite materials by coalescence-driven guided electrical percolation. <i>Polymer</i> , 2022, 246, 124740.	1.8	6
75	Improving the Ionic Conductivity of Carboxylated Nitrile Rubber/LDH Composites by Adding Imidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids. <i>Macromolecular Symposia</i> , 2014, 342, 35-45.	0.4	5
76	Exchange Process in the Dielectric Loss of Molecular and Macromolecular Ionic Conductors in the Interfacial Layers Formed by Electrode Polarization Effects. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8532-8542.	1.2	5
77	Viscoelastic behaviour of highly filled polypropylene with solid and liquid Tin microparticles: influence of the stearic acid additive. <i>Rheologica Acta</i> , 2021, 60, 661-673.	1.1	5
78	In-situ coupled mechanical/electrical investigations on conductive TPU/CB composites: Impact of thermo-mechanically induced structural reorganizations of soft and hard TPU domains on the coupled electro-mechanical properties. <i>Polymer</i> , 2022, 256, 125147.	1.8	5
79	Nanoporous Polycyanurates Created by Chemically-Induced Phase Separation: Structure-Property Relationships. <i>Macromolecular Symposia</i> , 2014, 341, 57-66.	0.4	4
80	Experimental diagnostic of sequence-variant dynamic perturbations revealed by broadband dielectric spectroscopy. <i>Structure</i> , 2021, 29, 1419-1429.e3.	1.6	4
81	Ionic Liquid Driven Enhancement in the Electromagnetic Interference Shielding Effectiveness of poly(methyl methacrylate) Based Composite Materials Filled with Hybrid Silver-coated Glass Microfibers. <i>Macromolecular Materials and Engineering</i> , 0, , 2100759.	1.7	4
82	Electrical conductivity under shear flow of molten polyethylene filled with carbon nanotubes: Experimental and modeling. <i>Polymer Engineering and Science</i> , 2021, 61, 1129-1138.	1.5	3
83	Analysis of Nanoconfined Protein Dielectric Signals Using Charged Amino Acid Network Models. <i>Australian Journal of Chemistry</i> , 2020, 73, 803.	0.5	3
84	Synthesis and Structure/Properties Correlations of Fluorinated Poly(1,2,3-triazolium)s. <i>Chemistry Africa</i> , 2020, 3, 759-768.	1.2	2
85	Droplet relaxation of molten metals in polypropylene matrix: Measurement of the interfacial tension. <i>Journal of Rheology</i> , 2021, 65, 391-404.	1.3	1
86	A protocol to measure slow protein dynamics of the cholera toxin B pentamers using broadband dielectric spectroscopy. <i>STAR Protocols</i> , 2022, 3, 101561.	0.5	0