Sylwester J Rzoska

List of Publications by Year
in descending order

209	4,376	116194	223390
papers	citations	36 h-index	49 g-index

215	215	215	2307
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Supercritical anomalies in liquid ODIC-forming cyclooctanol under the strong electric field. Journal of Molecular Liquids, 2022, 345, 117849.	2.3	7
2	Pretransitional and premelting effects in menthol. Chemical Physics Letters, 2022, 793, 139461.	1.2	7
3	New paradigm for configurational entropy in glass-forming systems. Scientific Reports, 2022, 12, 3058.	1.6	5
4	The fluctuation-driven dielectric properties of liquid crystalline 8OCB and its nanocolloids. Soft Matter, 2022, 18, 4502-4512.	1.2	8
5	Structural densification of lithium phosphoaluminoborate glasses. Journal of the American Ceramic Society, 2021, 104, 1345-1359.	1.9	7
6	Thermal conductivity of densified borosilicate glasses. Journal of Non-Crystalline Solids, 2021, 557, 120644.	1.5	9
7	Indentation Response of Calcium Aluminoborosilicate Glasses Subjected to Humid Aging and Hot Compression. Materials, 2021, 14, 3450.	1.3	1
8	Critical concentration in binary mixtures of limited miscibility. Fluid Phase Equilibria, 2021, 540, 112979.	1.4	4
9	Long-Range Static and Dynamic Previtreous Effects in Supercooled Squaleneâ€”Impact of Strong Electric Field. Molecules, 2021, 26, 5811.	1.7	2
10	The influence of the chemical structure of selected polymers on the properties of ferroelectric ceramic-polymer composites. Open Ceramics, 2021, 7, 100160.	1.0	2
11	Pretransitional Effects of the Isotropic Liquidâ€“Plastic Crystal Transition. Molecules, 2021, 26, 429.	1.7	9
12	Composition and pressure effects on the structure, elastic properties and hardness of aluminoborosilicate glass. Journal of Non-Crystalline Solids, 2020, 530, 119797.	1.5	30
13	Dynamics and Pretransitional Effects in C60 Fullerene Nanoparticles and Liquid Crystalline Dodecylcyanobiphenyl (12CB) Hybrid System. Nanomaterials, 2020, 10, 2343.	1.9	12
14	High-pressure behavior of dielectric constant in a binary critical mixture. Physical Review E, 2020, 102, 042610.	0.8	1
15	Impact of Pressure on Low-Molecular Weight Near-Critical Mixtures of Limited Miscibility. ACS Omega, 2020, 5, 20141-20152.	1.6	13
16	â€˜Quasi-Tricriticalâ€™ and Glassy Dielectric Properties of a Nematic Liquid Crystalline Material. Crystals, 2020, 10, 297.	1.0	11
17	Polyvinylidene difluoride-based composite: glassy dynamics and pretransitional behaviour. European Physical Journal B, 2020, 93, 1.	0.6	5
18	Revisiting the Dependence of Poissonâ€™s Ratio on Liquid Fragility and Atomic Packing Density in Oxide Glasses. Materials, 2019, 12, 2439.	1.3	30

#	Article	IF	Citations
19	The usage of high hydrostatic pressure (HHP) to control food-borne pathogens in hummus. High Pressure Research, 2019, 39, 525-532.	0.4	6
20	Nanoparticle-controlled glassy dynamics in nematogen-based nanocolloids. Physical Review E, 2019, 99, 052703.	0.8	14
21	Universal behavior of the apparent fragility in ultraslow glass forming systems. Scientific Reports, 2019, 9, 6816.	1.6	21
22	Gelcasting of Al2O3â€“W composites: Broadband dielectric spectroscopy and rheological studies of tungsten influence on polymerisation kinetics. Ceramics International, 2019, 45, 15237-15243.	2.3	7
23	Permanent Densification of Calcium Aluminophosphate Glasses. Frontiers in Materials, 2019, 6, .	1.2	10
24	Polymer matrix ferroelectric composites under pressure: Negative electric capacitance and glassy dynamics. European Physical Journal E, 2019, 42, 118.	0.7	4
25	Multifold pressure-induced increase of electric conductivity in LiFe0.75V0.10PO4 glass. Scientific Reports, 2019, 9, 16607.	1.6	8
26	Comparative effect of supercritical carbon dioxide and high pressure processing on structural changes and activity loss of oxidoreductive enzymes. Journal of CO2 Utilization, 2019, 29, 46-56.	3.3	49
27	Melting of tetrahedrally bonded semiconductors: â€œanomalyâ€•of the phase diagram of GaN?. Journal of Crystal Growth, 2019, 505, 5-9.	0.7	7
28	Pressure-induced structural changes in titanophosphate glasses studied by neutron and X-ray total scattering analyses. Journal of Non-Crystalline Solids, 2018, 483, 50-59.	1.5	13
29	New Achievements in High-Pressure Processing to Preserve Human Milk Bioactivity. Frontiers in Pediatrics, 2018, 6, 323.	0.9	45
30	Unique dynamic crossover in supercooled x,3-dihydroxypropyl acrylate (x = 1, 2) isomers mixture. European Physical Journal E, 2018, 41, 108.	0.7	2
31	Deformation and cracking behavior of La2O3-doped oxide glasses with high Poisson's ratio. Journal of Non-Crystalline Solids, 2018, 494, 86-93.	1.5	9
32	Structural Compromise between High Hardness and Crack Resistance in Aluminoborate Glasses. Journal of Physical Chemistry B, 2018, 122, 6287-6295.	1.2	32
33	Nonlinear Dielectric Effect in Critical Liquids. Advances in Dielectrics, 2018, , 187-217.	1.2	7
34	Combining high hardness and crack resistance in mixed network glasses through high-temperature densification. Physical Review Materials, 2018, 2, .	0.9	8
35	Treatment with high hydrostatic pressure and supercritical carbon dioxide to control Alicyclobacillus acidoterrestris spores in apple juice. Food Control, 2017, 73, 24-30.	2.8	41
36	Structural origin of high crack resistance in sodium aluminoborate glasses. Journal of Non-Crystalline Solids, 2017, 460, 54-65.	1.5	69

#	Article	IF	Citations
37	Evaluation of quality changes of beetroot juice after high hydrostatic pressure processing. High Pressure Research, 2017, 37, 214-222.	0.4	25
38	Photoelastic response of permanently densified oxide glasses. Optical Materials, 2017, 67, 155-161.	1.7	5
39	Pressure-driven structural depolymerization of zinc phosphate glass. Journal of Non-Crystalline Solids, 2017, 469, 31-38.	1.5	12
40	Discovery of Ultra-Crack-Resistant Oxide Glasses with Adaptive Networks. Chemistry of Materials, 2017, 29, 5865-5876.	3.2	113
41	New dynamics in poly(propylene glycol) based glass-forming nanocomposites. Journal of Non-Crystalline Solids, 2017, 471, 95-100.	1.5	5
42	Dissolution Kinetics of Hot Compressed Oxide Glasses. Journal of Physical Chemistry B, 2017, 121, 9063-9072.	1.2	33
43	Accessing Forbidden Glass Regimes through High-Pressure Sub-Tg Annealing. Scientific Reports, 2017, 7, 46631.	1.6	10
44	Impact of ferroelectric and superparaelectric nanoparticles on phase transitions and dynamics in nematic liquid crystals. Physical Review E, 2017, 96, 022705.	0.8	34
45	Network Glasses Under Pressure: Permanent Densification in Modifier-Free <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Al</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mtext>â</mml:mtext></mml:mrow></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">B</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mo>,	1.5	33
46	Physical Review Applied, 2017, 7, . New Challenges for the Pressure Evolution of the Glass Temperature. Frontiers in Materials, 2017, 4, .	1.2	16
47	Modifier field strength effects on densification behavior and mechanical properties of alkali aluminoborate glasses. Physical Review Materials, 2017, 1, .	0.9	33
48	Effects of Thermal and Pressure Histories on the Chemical Strengthening of Sodium Aluminosilicate Glass. Frontiers in Materials, 2016, 3, .	1.2	20
49	The super- and sub-critical effects for dielectric constant in diethyl ether. Journal of Chemical Physics, 2016, 144, 224506.	1.2	7
50	Structure and mechanical properties of compressed sodium aluminosilicate glasses: Role of non-bridging oxygens. Journal of Non-Crystalline Solids, 2016, 441, 49-57.	1.5	89
51	Pressure-induced structural transformations in phosphorus oxynitride glasses. Journal of Non-Crystalline Solids, 2016, 452, 153-160.	1.5	7
52	Volume and structural relaxation in compressed sodium borate glass. Physical Chemistry Chemical Physics, 2016, 18, 29879-29891.	1.3	21
53	Impact of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BaTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> nanoparticles on pretransitional effects in liquid crystalline dodecylcyanobiphenyl. Physical Review E, 2016, 93, 020701.	0.8	25
54	Pretransitional behavior of the nonlinear dielectric effect for the liquid-solid transition in nitrobenzene. Physical Review E, 2016, 93, 062131.	0.8	7

#	Article	IF	Citations
55	Crucial effect of angular flexibility on the fracture toughness and nano-ductility of aluminosilicate glasses. Journal of Non-Crystalline Solids, 2016, 454, 46-51.	1.5	20
56	Universal behavior of changes in elastic moduli of hot compressed oxide glasses. Chemical Physics Letters, 2016, 651, 88-91.	1.2	24
57	Unique effects of thermal and pressure histories on glass hardness: Structural and topological origin. Journal of Chemical Physics, 2015, 143, 164505.	1.2	51
58	The challenge of decomposition and melting of gallium nitride under high pressure and high temperature. Journal of Physics and Chemistry of Solids, 2015, 85, 138-143.	1.9	34
59	Inactivation ofStaphylococcus aureusand native microflora in human milk by high pressure processing. High Pressure Research, 2015, 35, 181-188.	0.4	15
60	Fragility and basic process energies in vitrifying systems. Scientific Reports, 2015, 5, 8314.	1.6	34
61	Fractional Debyeâ€“Stokesâ€“Einstein behaviour in an ultraviscous nanocolloid: glycerol and silver nanoparticles. Soft Matter, 2015, 11, 5554-5562.	1.2	24
62	Dielectric Spectroscopy of Pressurized Saccharomyces cerevisiae. Food Biophysics, 2015, 10, 229-234.	1.4	5
63	Indentation deformation mechanism of isostatically compressed mixed alkali aluminosilicate glasses. Journal of Non-Crystalline Solids, 2015, 426, 175-183.	1.5	53
64	Temperature-dependent densification of sodium borosilicate glass. RSC Advances, 2015, 5, 78845-78851.	1.7	23
65	Germination and Inactivation of Alicyclobacillus acidoterrestris Spores Induced by Moderate Hydrostatic Pressure. Polish Journal of Microbiology, 2015, 64, 351-359.	0.6	10
66	Nonlinear dielectric effect in supercritical diethyl ether. Journal of Chemical Physics, 2014, 141, 094907.	1.2	16
67	Inactivation and sublethal injury ofEscherichia coliandListeria innocuaby high hydrostatic pressure in model suspensions and beetroot juice. High Pressure Research, 2014, 34, 147-155.	0.4	32
68	Mixed alkaline earth effect in the compressibility of aluminosilicate glasses. Journal of Chemical Physics, 2014, 140, 054511.	1.2	52
69	Composition-Structure-Property Relations of Compressed Borosilicate Glasses. Physical Review Applied, 2014, 2, .	1.5	47
70	Pressure-Induced Changes in Interdiffusivity and Compressive Stress in Chemically Strengthened Glass. ACS Applied Materials & Interfaces, 2014, 6, 10436-10444.	4.0	22
71	Divergent dynamics and the Kauzmann temperature in glass forming systems. Scientific Reports, 2014, 4, 5160.	1.6	36
72	The effect of high hydrostatic pressure on the survival ofSaccharomyces cerevisiaein model suspensions and beetroot juice. High Pressure Research, 2013, 33, 165-171.	0.4	21

#	Article	IF	Citations
73	A universal description of ultraslow glass dynamics. Nature Communications, 2013, 4, 1823.	5.8	52
74	Factors influencing the inactivation ofAlicyclobacillus acidoterrestrisspores exposed to high hydrostatic pressure in apple juice. High Pressure Research, 2013, 33, 73-82.	0.4	26
75	Distortion-sensitive insight into the pretransitional behavior of 4-n-octyloxy-4â€²-cyanobiphenyl (8OCB). Journal of Physics Condensed Matter, 2013, 25, 245105.	0.7	23
76	Does the characteristic value of the discontinuity of the isotropicâ€“mesophase transition inn-cyanobiphenyls exist?. Journal of Physics Condensed Matter, 2012, 24, 375101.	0.7	12
77	Dual field nonlinear dielectric spectroscopy in a glass forming EPON 828 epoxy resin. Journal of Physics Condensed Matter, 2012, 24, 035101.	0.7	16
78	The new insight into dynamic crossover in glass forming liquids from the apparent enthalpy analysis. Journal of Chemical Physics, 2012, 137, 064501.	1.2	36
79	The combined effect of high pressure and nisin or lysozyme on the inactivation ofAlicyclobacillus acidoterrestrisspores in apple juice. High Pressure Research, 2012, 32, 119-127.	0.4	38
80	Glassy dynamics in the isotropic phase of a smectogenic liquid crystalline compound. Physical Review E, 2011, 84, 031710.	0.8	9
81	Universal critical-like scaling of dynamics in plastic crystals. Journal of Non-Crystalline Solids, 2011, 357, 329-333.	1.5	6
82	Non-linear dielectric effect in the isotropic phase above the isotropicâ€“cholesteric phase transition. Chemical Physics, 2011, 389, 64-67.	0.9	3
83	Secondary relaxations of orientationally disordered mixed crystals at temperatures lower than the glass transition temperature. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2254-2257.	0.8	3
84	Enthalpy space analysis of the evolution of the primary relaxation time in ultraslowing systems. Journal of Chemical Physics, 2011, 134, 024512.	1.2	23
85	Prevalence for the universal distribution of relaxation times near the glass transitions in experimental model systems: Rodlike liquid crystals and orientationally disordered crystals. Journal of Chemical Physics, 2011, 134, 144505.	1.2	8
86	Microscopic structures and dynamics of high- and low-density liquid<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>t</mml:mi><mml:mi>r</mml:mi><mml:mi>a</mml:mi><mml:mi>n</mml:mi><mml:mi>s</mml:mi><mml:m Physical Review B, 2010, 81, .	1.1	14
87	Viscosity, relaxation time, glass temperature, melting temperature and fragile-to-strong transition parameterizations at extreme pressures in soft-matter systems. High Pressure Research, 2010, 30, 574-580.	0.4	1
88	Consistency of the Vogel â€” Fulcher â€ Tammann (VFT) Equations For The Temperature-, Pressure-, Volume-and Density- Related Evolutions of Dynamic Properties in Supercooled and Superpressed Glass Forming Liquids/Systems. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 93-106.	0.5	4
89	Dielectric and mechanical relaxation in isooctylcyanobiphenyl (8*OCB). Journal of Physics Condensed Matter, 2010, 22, 235101.	0.7	11
90	Disentangling the Secondary Relaxations in the Orientationally Disordered Mixed Crystals: Cycloheptanol + Cyclooctanol Two-Component System. Journal of Physical Chemistry B, 2010, 114, 6099-6106.	1.2	18

#	Article	IF	Citations
91	Evidence for critical-like behavior in ultraslowing glass-forming systems. Physical Review E, 2010, 82, 031501.	0.8	33
92	New Proposals for Supercritical Fluids Applications. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 167-179.	0.5	0
93	Anomalous Decoupling of the dc Conductivity and the Structural Relaxation Time in the Isotropic Phase of a Rod-Like Liquid Crystalline Compound. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 141-149.	0.5	3
94	High-Pressure Melting Curves and Liquidâ€“Liquid Phase Transition. Advanced Science Letters, 2010, 3, 527-530.	0.2	7
95	About the Shape of the Melting Line as a Possible Precursor of a Liquid-Liquid Phase Transition. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 233-236.	0.5	0
96	Universal pattern for the distribution of relaxation times in the isotropic phase of liquid crystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-cyanobiphenyls. Physical Review E, 2009, 80, 011704.	0.8	4
97	Glassy dynamics of liquid crystalline 4â€²-n-pentyl-4-cyanobiphenyl in the isotropic and supercooled nematic phases. Journal of Chemical Physics, 2009, 130, 234910.	1.2	35
98	Scaling the dynamics of orientationally disordered mixed crystals. Journal of Chemical Physics, 2009, 131, 184504.	1.2	12
99	Miscibility Holes and Continuous Liquidâ^'Liquid Miscibility Curves in Type III and IV Systems. Journal of Chemical & Engineering Data, 2009, 54, 1569-1574.	1.0	2
100	Spinodal strength of liquids, solids and glasses. Journal of Physics Condensed Matter, 2008, 20, 244104.	0.7	10
101	Solidâ€“fluid phase transitions under extreme pressures including negative ones. Journal of Non-Crystalline Solids, 2008, 354, 4157-4162.	1.5	8
102	The Liquidâ^'Glass and Liquidâ^'Liquid Transitions of TPP at Elevated Pressure. Journal of Physical Chemistry B, 2008, 112, 10383-10385.	1.2	37
103	Thermodynamic scaling and the characteristic relaxation time at the phase transition of liquid crystals. Journal of Chemical Physics, 2008, 128, 224506.	1.2	39
104	Universal critical-like scaling of dynamic properties in symmetry-selected glass formers. Journal of Chemical Physics, 2008, 129, 184509.	1.2	29
105	On the pressure evolution of dynamic properties of supercooled liquids. Journal of Physics Condensed Matter, 2008, 20, 244103.	0.7	29
106	New evidence for a liquidâ€“liquid transition in a one-component liquid. Journal of Physics Condensed Matter, 2008, 20, 244124.	0.7	9
107	Anomalous temperature behavior of nonlinear dielectric effect in supercooled nitrobenzene. Physical Review E, 2008, 77, 041501.	0.8	26
108	On the glass temperature under extreme pressures. Journal of Chemical Physics, 2007, 126, 164504.	1.2	47

#	Article	IF	Citations
109	Anomalous behavior of secondary dielectric relaxation in polypropylene glycols. Journal of Physics Condensed Matter, 2007, 19, 376105.	0.7	16
110	On the pressure evolution of the melting temperature and the glass transition temperature. Journal of Non-Crystalline Solids, 2007, 353, 3915-3923.	1.5	39
111	Critical behaviour in nitrobenzeneâ€“hexane mixture by approaching the liquidâ€“liquid critical line. Fluid Phase Equilibria, 2007, 255, 11-16.	1.4	8
112	Influence of pressure on the isotropic to smectic-E phase transition. Physica B: Condensed Matter, 2007, 400, 292-296.	1.3	7
113	Dynamics crossover and dynamic scaling description in vitrification of orientationally disordered crystal. Physical Review B, 2006, 73, .	1.1	37
114	Derivative-based analysis for temperature and pressure evolution of dielectric relaxation times in vitrifying liquids. Physical Review E, 2006, 73, 041502.	0.8	48
115	Dielectric relaxation in compressed glassy and orientationally disordered mixed crystals. Physical Review B, 2006, 74, .	1.1	29
116	Pretransitional behavior in the isotropic phase of a nematic liquid crystal with the transverse permanent dipole moment. Journal of Chemical Physics, 2006, 124, 144907.	1.2	10
117	Effect of glass structure on the dynamics of the secondary relaxation in diisobutyl and diisoctyl phthalates. Physical Review B, 2005, 72, .	1.1	27
118	Complex dynamics of supercoolingn-butylcyanobiphenyl (4CB). Physical Review E, 2005, 72, 031501.	0.8	27
119	Mode coupling behavior in glass-forming liquid crystalline isopentylcyanobiphenyl. Physical Review E, 2005, 71, 011508.	0.8	37
120	Pressure dependence of the glass temperature in supercooled liquids. Physical Review E, 2005, 72, 041505.	0.8	23
121	Effect of pressure on dynamic heterogeneity in dendrimeric alkyd resin. Journal of Chemical Physics, 2004, 120, 2020-2025.	1.2	17
122	Temperature and volume effects on the change of dynamics in propylene carbonate. Physical Review E, 2004, 70, 061501.	0.8	80
123	Liquidâ€“liquid phase equilibria in nitrobenzeneâ€“hexane critical mixture under negative pressure. Physical Chemistry Chemical Physics, 2004, 6, 2291-2294.	1.3	27
124	Phase Equilibrium in Complex Liquids under Negative Pressure. , 2004, , 177-189.		0
125	Comments on Nonlinear Dielectric Effect Measurements in Liquids. , 2004, , 55-56.		0
126	Departures from the correlation of time- and temperature-dependences of the Î±-relaxation in molecular glass-formers. Journal of Chemical Physics, 2003, 119, 12439-12441.	1.2	21

#	Article	IF	Citations
127	Critical behavior of dielectric permittivity and electric conductivity in temperature and pressure studies above and below the critical consolute point. Journal of Chemical Physics, 2003, 118, 9357-9363.	1.2	23
128	Apparent exponents for the chain length dependence of the volume fraction in critical polymer solutions. Journal of Chemical Physics, 2003, 118, 6110-6119.	1.2	21
129	Complex dielectric relaxation in supercooling and superpressing liquid-crystalline chiral isopentylcyanobiphenyl. Physical Review E, 2003, 68, 031705.	0.8	30
130	Test of the Einstein-Debye Relation in Supercooled Dibutylphthalate at Pressures up to 1.4ÂGPa. Physical Review Letters, 2003, 90, 175702.	2.9	37
131	Changes in dynamic crossover with temperature and pressure in glass-forming diethyl phthalate. Physical Review E, 2003, 68, 021503.	0.8	65
132	Effect of Temperature and Pressure on Segmental Relaxation in Polymethylphenylsiloxane. Rubber Chemistry and Technology, 2003, 76, 1106-1115.	0.6	18
133	Critical Behavior of the Dielectric Modulus in Nitrobenzene-Dodecane Mixture. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2003, 58, 541-545.	0.7	2
134	Complex dynamics of isotropic 4-cyano-4-n-pentylbiphenyl (5CB) in linear and nonlinear dielectric relaxation studies. Physical Review E, 2002, 65, 041701.	0.8	37
135	Pressure effect on the smectic-Aâ€“isotropic phase transition. Physical Review E, 2002, 65, 051705.	0.8	35
136	On the critical behavior of linear and nonlinear dielectric permittivity on approaching the critical consolute point. IEEE Transactions on Dielectrics and Electrical Insulation, 2002, 9, 112-117.	1.8	4
137	Non-linear dielectric effect in superpressed chiral isopentylcyanobiphenyl (5CB). Journal of Non-Crystalline Solids, 2002, 307-310, 311-316.	1.5	7
138	Preliminary Studies on the Dielectric Permittivity in the Isotropic and Mesophase of Cholesteryl Oleyl Carbonate. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2002, 57, 126-128.	0.7	4
139	Linear and Non-linear Dielectric Pretransitional Behavior Near the Isotropic-nematic Phase Transition for 4-cyano-4-n-pentylbiphenyl (5CB). Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2002, 57, 244-246.	0.7	2
140	Critical behavior in broad-band dielectric relaxation on approaching the critical consolute point in ethanol-dodecane mixture. Physical Review E, 2002, 65, 042501.	0.8	14
141	Glassy and fluidlike behavior of the isotropic phase of n-cyanobiphenyls in broad-band dielectric relaxation studies. European Physical Journal E, 2002, 7, 387-392.	0.7	19
142	On the Tricritical Point of the Isotropic â€" Nematic Transition in a Rod-Like Mesogen Hidden in the Negative Pressure Region. , 2002, , 117-125.		3
143	Universal Scaling of Alpha Relaxation in Complex Liquids. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2001, 56, 893-894.	0.7	1
144	Temperature studies of dielectric permittivity and mass density pretransitional anomalies in binary mixtures. Phase Transitions, 2001, 73, 439-445.	0.6	3

#	Article	IF	Citations
145	Pretransitional behavior of dielectric permittivity on approaching a clearing point in a mixture of nematogens with antagonistic configurations of dipoles. Physical Review E, 2001, 64, 051701.	0.8	19
146	Quasicritical behavior of the low-frequency dielectric permittivity in the isotropic phase of liquid crystalline materials. Physical Review E, 2001, 63, 052701.	0.8	31
147	Critical anomaly of dielectric permittivity for the temperature and pressure paths on approaching the critical consolute point. Physical Review E, 2001, 64, 061104.	0.8	14
148	Fluidlike behavior of dielectric permittivity in a wide range of temperature above and below the nematic-isotropic transition. Physical Review E, 2001, 64, 052701.	0.8	49
149	Linear and nonlinear dielectric studies in the isotropic and smectic E phases in 4,4-alkyl-4Â´-isothiocyanatobiphenyl. Journal of Physics Condensed Matter, 2000, 12, 1677-1681.	0.7	8
150	The pretransitional anomaly of dielectric permittivity in the isotropic phase of nematogens and in the homogeneous phase of critical solutions. Journal of Physics Condensed Matter, 2000, 12, 6135-6140.	0.7	12
151	Quasicritical behavior of dielectric permittivity in the isotropic phase of smectogenicn-cyanobiphenyls. Physical Review E, 2000, 61, 5349-5354.	0.8	60
152	Dynamics of critical fluctuations in a binary mixture of limited miscibility under a strong electric field. Physical Review E, 2000, 61, 960-963.	0.8	9
153	Shear viscosity studies above and below the critical consolute point in a nitrobenzene-decane mixture. Physical Review E, 2000, 62, 8071-8075.	0.8	13
154	Phase transitions from THE isotropic liquid to liquid crystalline mesophases studied by linear and nonlinear static dielectric permittivity. Physical Review E, 2000, 61, 5355-5360.	0.8	68
155	The Fluid-Like and Critical Behavior of the Isotropic-Nematic Transition Appearing in Linear and Non-linear Dielectric Studies. Acta Physica Polonica A, 2000, 98, 637-643.	0.2	10
156	Pressure behaviour of dielectric permittivity on approaching the near-critical consolute point. Europhysics Letters, 1999, 45, 334-340.	0.7	22
157	The quasi-critical behaviour of electric conductivity in glass-forming liquids. Journal of Physics Condensed Matter, 1999, 11, L451-L456.	0.7	2
158	Nonlinear dielectric studies in supercooling 4-(2-methylbutyl)-4Â´-cyanobiphenyl (5*CB). Journal of Physics Condensed Matter, 1999, 11, L473-L476.	0.7	8
159	Classical-nonclassical crossover behavior of critical and noncritical liquid binary solutions in a strong electric field. Physical Review E, 1999, 60, 4983-4985.	0.8	12
160	Quasicritical behavior of dielectric permittivity in the isotropic phase ofn-hexyl-cyanobiphenyl in a large range of temperatures and pressures. Physical Review E, 1999, 59, 5556-5561.	0.8	36
161	Quasi-Critical Behaviour of â€œLinearâ€•and â€œNonlinearâ€•Dielectric Permittivity in the Isotropic Phase of Nematogens. Molecular Crystals and Liquid Crystals, 1999, 330, 29-35.	0.3	6
162	Dynamics of glassy clusters appearing by nonlinear dielectric effect studies. Physical Review E, 1999, 59, 2460-2463.	0.8	17

#	Article	IF	Citations
163	Scaling of high-pressure viscosity data in low-molecular-weight glass-forming liquids. Physical Review B, 1999, 60, 2979-2982.	1.1	67
164	Pressure and temperature studies of dielectric permittivity in the homogeneous phase of nitrobenzeneâ€“dodecane binary mixture. Chemical Physics, 1999, 241, 351-357.	0.9	13
165	On the isothermal pressure behaviour of the relaxation times for supercooled glass-forming liquids. Journal of Physics Condensed Matter, 1998, 10, 4131-4138.	0.7	52
166	Influence of measurement frequency on the pretransitional behaviour of the no-linear dielectric effect in the isotropic phase of liquid crystalline materials. Liquid Crystals, 1998, 24, 835-840.	0.9	31
167	Critical behavior of dielectric permittivity and nonlinear dielectric effect in the isotropic phase of nematogens. , 1998, , .		2
168	The influence of pressure on dielectric relaxation for phthalate derivatives in the supercooled state. Journal of Physics Condensed Matter, 1997, 9, 5485-5494.	0.7	26
169	Stretched relaxation after switching off the strong electric field in a near-critical solution under high pressure. Physical Review E, 1997, 56, 2578-2581.	0.8	22
170	High-pressure studies of the low-frequency nonlinear dielectric effect in the isotropic phaseof octyl- and dodecylcyanobiphenyls. Physical Review E, 1997, 55, 2888-2891.	0.8	28
171	Dielectric relaxation of glass-forming epoxy resin under high pressure. Physical Review E, 1997, 56, 5764-5767.	0.8	30
172	High-pressure and temperature dependence of dielectric relaxation in supercooled di-isobutyl phthalate. Physical Review E, 1996, 54, 4008-4010.	0.8	50
173	Electric permittivity in the one- and two-phase region of 1-nitropropane-hexadecane near-critical solution. Chemical Physics, 1996, 213, 483-488.	0.9	14
174	Mean-field behaviour of the low frequency non-linear dielectric effect in the isotropic phase of nematic and smecticn-alkylcyanobiphenyls. Liquid Crystals, 1996, 21, 273-277.	0.9	31
175	A new application of the nonlinear dielectric method for studying relaxation processes in liquids. Review of Scientific Instruments, 1996, 67, 4290-4293.	0.6	40
176	Critical behavior of dielectric permittivity in the isotropic phase of nematogens. Physical Review E, 1996, 54, 6452-6456.	0.8	89
177	Isothermal and high-pressure studies of dielectric relaxation in supercooled glycerol. Journal of Physics Condensed Matter, 1996, 8, 10885-10890.	0.7	42
178	Influence of intermolecular interactions on the sign of dTC/dp in critical solutions. Chemical Physics, 1995, 201, 575-582.	0.9	59
179	Time-scale dependence of the critical exponent for the nonlinear dielectric effect in a critical binary solution. Physical Review E, 1995, 52, 6325-6328.	0.8	18
180	The equivalence of density and field variables for the pretransitional effect in the isotropic phase of nematogens. Phase Transitions, 1995, 54, 75-80.	0.6	3

#	Article	IF	Citations
181	The Nonlinear Dielectric Effect in the Isotropic Phase of Nematogens. Molecular Crystals and Liquid Crystals, 1995, 260, 443-447.	0.3	5
182	Classical behaviour of the non-linear dielectric effect in the isotropic phase of nematogens. Liquid Crystals, 1994, 17, 629-633.	0.9	21
183	Relationship between dielectric properties and critical behavior of the electric birefringence in binary liquid mixtures. Physical Review E, 1994, 49, 5234-5237.	0.8	20
184	Relaxation of electric birefringence near a critical consolute point. Physical Review E, 1994, 49, 3093-3096.	0.8	16
185	Experimental studies on the temperature behavior of the nonlinear dielectric effect in a critical binary solution. Physical Review E, 1993, 47, 1445-1447.	0.8	12
186	Kerr effect and the nonlinear dielectric effect on approaching the critical consolute point. Physical Review E, 1993, 48, 1136-1141.	0.8	61
187	<title>Influence of the orientation mechanism on the nonlinear dielectric effect in the isotropic phase of nematogens</title>. , 1993, 1845, 501.		0
188	Critical properties in the vicinity of the critical consolute point for the 4-methoxybenzylidene-4â€²-butylaniline-isooctane solution. Liquid Crystals, 1992, 11, 9-14.	0.9	7
189	An influence of the orientation mechanism on the value of the nonlinear dielectric effect for the isotropicâ€”nematic transition. Chemical Physics Letters, 1992, 197, 277-279.	1.2	8
190	Stretched-exponential relaxation of the nonlinear dielectric effect in a critical binary solution. Physical Review A, 1991, 43, 1100-1102.	1.0	17
191	Influence of an additional power term on the critical exponent of the Nonlinear Dielectric Effect in critical solutions. Phase Transitions, 1991, 35, 99-103.	0.6	2
192	Nonlinear dielectric effect in liquids in the vicinity of the critical point. International Journal of Thermophysics, 1990, 11, 1087-1098.	1.0	3
193	Visual methods for the determination of coexistence curves in liquid mixtures. Phase Transitions, 1990, 27, 1-13.	0.6	19
194	Nonlinear Dielectric Effect for Studying Isotropic - Liquid Crystal Phase Transitions. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 191, 333-337.	0.3	5
195	An isothermic coexistence curve in the nitrobenzeneâ€“decaneâ€“benzene solution. Journal of Chemical Physics, 1989, 90, 2783-2785.	1.2	14
196	Critical behavior of the isotropicâ€“smectic-Atransition inp-decyloxy-benzylidene-p-amino-2-methyl-butyl-cinnamate studied by the nonlinear dielectric effect method. Physical Review A, 1989, 40, 448-450.	1.0	15
197	Nonlinear dielectric effect investigation in the immediate vicinity of the critical point. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 139, 343-346.	0.9	11
198	The nonlinear dielectric effect in critical solutions with different types of background effects. Phase Transitions, 1989, 15, 1-10.	0.6	9

#	Article	IF	Citations
199	Properties of the nonlinear dielectric effect in critical nitrobenzene in n-alkane solutions in a broad range of temperatures. Chemical Physics, 1988, 122, 471-477.	0.9	16
200	Pretransitional nonlinear dielectric effect, Kerr effect and optical rotation in isotropic cholesterogens. Chemical Physics, 1988, 121, 255-263.	0.9	28
201	Nonlinear dielectric effect in a pure and in a nitrobenzene-doped critical solution of perfluoromethylcyclohexane-carbon tetrachloride. The Journal of Physical Chemistry, 1988, 92, 2064-2066.	2.9	19
202	Critical properties of nitrobenzene +n-alkanes solutions. Phase Transitions, 1987, 10, 131-142.	0.6	11
203	Critical behavior of 1â€nitropropaneâ€dodecane solution by the NDE method. Phase Transitions, 1987, 9, 317-325.	0.6	10
204	Fisherâ€™s renormalization for the nonlinear dielectric effect from isothermal measurements. Physical Review A, 1987, 36, 2885-2889.	1.0	12
205	The nonlinear dielectric effect in the critical nitrobenzene-heptane solution in the one- and two-phase region. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 126, 81-83.	0.9	3
206	Pseudospinodal curve for binary solutions determined from the non-linear dielectric effect. Chemical Physics, 1987, 111, 155-160.	0.9	27
207	Nonlinear dielectric effect in the vicinity of the critical point of binary and doped critical solutions. Physica A: Statistical Mechanics and Its Applications, 1986, 139, 569-584.	1.2	43
208	Shear viscosity measurements near a critical endpoint. Journal of Chemical Physics, 1986, 84, 1735-1738.	1.2	6
209	Pretransitional Behavior and Dynamics in Liquid Crystalâ€“Based Nanocolloids. , 0, , .		3