Roman Pogreb

List of Publications by Year
in descending order

106 papers	3,627 citations	136885 32 h-index	133188 59 g-index
111 all docs	111 docs citations	111 times ranked	3202 citing authors

#	Article	IF	Citations
1	Resuscitation of Pulsed Electric Field-Treated Staphylococcus aureus and Pseudomonas putida in a Rich Nutrient Medium. Foods, 2021, 10, 660.	1.9	4
2	Simultaneous determination of thickness and refractive index using Cauchy or Sellmeier formulas by the example of surface plasmon resonance study on ultrathin polysulfone film. International Journal of Polymer Analysis and Characterization, 2021, 26, 661-667.	0.9	2
3	Eradication of Saccharomyces cerevisiae by Pulsed Electric Field Treatments. Microorganisms, 2020, 8, 1684.	1.6	8
4	Dielectric properties of UV-irradiated ultrathin polysulfone films revealed by surface plasmon resonance method. International Journal of Polymer Analysis and Characterization, 2018, 23, 396-402.	0.9	2
5	Influence of UV irradiation in nitrogen and air environment on dielectric properties of ultrathin polysulfone films revealed using surface plasmon resonance method. International Journal of Polymer Analysis and Characterization, 2018, 23, 669-674.	0.9	0
6	Relaxation spectra of polymers and phenomena of electrical and hydrophobic recovery: Interplay between bulk and surface properties of polymers. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 198-205.	2.4	13
7	Under-Liquid Self-Assembly of Submerged Buoyant Polymer Particles. Langmuir, 2016, 32, 5714-5720.	1.6	3
8	Superoleophobic Surfaces Obtained via Hierarchical Metallic Meshes. Langmuir, 2016, 32, 4134-4140.	1.6	31
9	How to grow a movable mini-garden in a droplet: Growing chemical gardens in a water and aqueous ethanol solutions droplets deposited on a superhydrophobic surface. Colloids and Interface Science Communications, 2015, 7, 12-15.	2.0	3
10	Elastic properties of liquid marbles. Colloid and Polymer Science, 2015, 293, 2157-2164.	1.0	47
11	Temporal Electret Behavior of Polymer Films Exposed to Cold Radiofrequency Plasma. Advanced Engineering Materials, 2015, 17, 1175-1179.	1.6	6
12	Progress in low voltage reversible electrowetting with lubricated polymer honeycomb substrates. RSC Advances, 2015, 5, 32491-32496.	1.7	23
13	Liquid marbles containing petroleum and their properties. Petroleum Science, 2015, 12, 340-344.	2.4	14
14	Phenomenological model of wetting charged dielectric surfaces and its testing with plasma-treated polymer films and inflatable balloons. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 487, 162-168.	2.3	9
15	Floating of heavy objects on liquid surfaces coated with colloidal particles. Colloid and Polymer Science, 2015, 293, 567-572.	1.0	5
16	Low voltage reversible electrowetting exploiting lubricated polymer honeycomb substrates. Applied Physics Letters, 2014, 104, .	1.5	34
17	Submerged (Under-Liquid) Floating of Light Objects. Langmuir, 2013, 29, 10700-10704.	1.6	5
18	Jetting liquid marbles: study of the Taylor instability in immersed marbles. Colloid and Polymer Science, 2013, 291, 1535-1539.	1.0	8

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19	Electrically Controlled Membranes Exploiting Cassie-Wenzel Wetting Transitions. Scientific Reports, 2013, 3, 3028.	1.6	22
20	Wetting Transitions on Post-Built and Porous Reliefs. Journal of Adhesion Science and Technology, 2012, 26, 1169-1180.	1.4	7
21	Composite non-stick droplets and their actuation with electric field. Applied Physics Letters, 2012, 100, .	1.5	65
22	Stable water and glycerol marbles immersed in organic liquids: From liquid marbles to Pickering-like emulsions. Journal of Colloid and Interface Science, 2012, 366, 196-199.	5.0	38
23	Janus Droplets: Liquid Marbles Coated with Dielectric/Semiconductor Particles. Langmuir, 2011, 27, 7-10.	1.6	107
24	Singleâ€step technique allowing formation of microscaled thermally stable polymer honeycomb reliefs demonstrating reversible wettability. Polymers for Advanced Technologies, 2011, 22, 94-98.	1.6	12
25	The potential comb improves the efficiency of low-frequency energy harvesting. Journal of Applied Physics, 2011, 109, 114512.	1.1	3
26	Electrically Deformable Liquid Marbles. Journal of Adhesion Science and Technology, 2011, 25, 1371-1377.	1.4	38
27	On the mechanism of patterning in rapidly evaporated polymer solutions: Is temperature-gradient-driven Marangoni instability responsible for the large-scale patterning?. Journal of Colloid and Interface Science, 2010, 343, 602-607.	5.0	36
28	Interfacial and conductive properties of liquid marbles coated with carbon black. Powder Technology, 2010, 203, 529-533.	2.1	82
29	Thickness of gravity-flattened water layers (â€œpuddlesâ€) deposited on the polymer substrates and the hysteresis of the contact angle. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 372, 135-138.	2.3	3
30	A reliable method of manufacturing metallic hierarchical superhydrophobic surfaces. Applied Physics Letters, 2009, 94, .	1.5	19
31	Electrostatically driven droplets deposited on superhydrophobic surfaces. Applied Physics Letters, 2009, 95, .	1.5	16
32	Robust method of manufacturing rubber wasteâ€based water repellent surfaces. Polymers for Advanced Technologies, 2009, 20, 650-653.	1.6	6
33	Surface tension of liquid marbles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 351, 78-82.	2.3	114
34	Comment on Water Wetting Transition Parameters of Perfluorinated Substrates with Periodically Distributed Flat-Top Microscale Obstacles. Langmuir, 2009, 25, 13694-13695.	1.6	13
35	Shape, Vibrations, and Effective Surface Tension of Water Marbles. Langmuir, 2009, 25, 1893-1896.	1.6	100
36	â€œPetal Effectâ€•on Surfaces Based on Lycopodium: High-Stick Surfaces Demonstrating High Apparent Contact Angles. Journal of Physical Chemistry C, 2009, 113, 5568-5572.	1.5	152

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37	Freeâ€Standing, Thermostable, Micrometerâ€Scale Honeycomb Polymer Films and their Properties. Macromolecular Materials and Engineering, 2008, 293, 872-877.	1.7	26
38	On the role of the Plateau borders in the pattern formation occurring in thin evaporated polymer layers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 312, 245-248.	2.3	3
39	New Investigations on Ferrofluidics: Ferrofluidic Marbles and Magnetic-Field-Driven Drops on Superhydrophobic Surfaces. Langmuir, 2008, 24, 12119-12122.	1.6	187
40	Superhydrophobic Metallic Surfaces and Their Wetting Properties. Journal of Adhesion Science and Technology, 2008, 22, 379-385.	1.4	35
41	Characterization of rough surfaces with vibrated drops. Physical Chemistry Chemical Physics, 2008, 10, 4056.	1.3	120
42	The Reversible Giant Change in the Contact Angle on the Polysulfone and Polyethersulfone Films Exposed to UV Irradiation. Langmuir, 2008, 24, 5977-5980.	1.6	33
43	Contact Angle Hysteresis on Polymer Substrates Established with Various Experimental Techniques, Its Interpretation, and Quantitative Characterization. Langmuir, 2008, 24, 4020-4025.	1.6	101
44	Resonance Cassieâ^'Wenzel Wetting Transition for Horizontally Vibrated Drops Deposited on a Rough Surface. Langmuir, 2007, 23, 12217-12221.	1.6	115
45	Cassieâ^'Wenzel Wetting Transition in Vibrating Drops Deposited on Rough Surfaces:â€‰ Is the Dynamic Cassieâ^'Wenzel Wetting Transition a 2D or 1D Affair?. Langmuir, 2007, 23, 6501-6503.	1.6	258
46	Environmental Scanning Electron Microscopy Study of the Fine Structure of the Triple Line and Cassieâ^'Wenzel Wetting Transition for Sessile Drops Deposited on Rough Polymer Substrates. Langmuir, 2007, 23, 4378-4382.	1.6	70
47	Selfâ€Assembly in Evaporated Polymer Solutions: Patterning on Two Scales. Israel Journal of Chemistry, 2007, 47, 319-328.	1.0	9
48	On the Mechanisms of Colloidal Particle and Vapor Bubble Aggregation in Liquid Flows. Israel Journal of Chemistry, 2007, 47, 381-384.	1.0	1
49	Vibration-induced Cassie-Wenzel wetting transition on rough surfaces. Applied Physics Letters, 2007, 90, 201917.	1.5	148
50	Formation of Films on Water Droplets Floating on a Polymer Solution Surface. Macromolecular Chemistry and Physics, 2007, 208, 702-709.	1.1	25
51	Self-assembled patterns obtained with evaporated polymer solutions and pre-stretched polymer substrates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 303, 253-256.	2.3	7
52	Droplet behavior on flat and textured surfaces: Co-occurrence of Deegan outward flow with Marangoni solute instability. Journal of Colloid and Interface Science, 2007, 306, 128-132.	5.0	22
53	Luminescence and absorption spectra of Eu-complex-doped PVDF film: influence of controlled stretch. , 2006, 6116, 86.		0
54	Luminescent properties of PP and LDPE films and rods doped with the Eu(III)-La(III) complex. Polymers for Advanced Technologies, 2006, 17, 20-25.	1.6	8

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55	Template-assisted crystallization and colloidal self-assembly with use of the polymer micrometrically scaled honeycomb template. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 290, 273-279.	2.3	9
56	Template-assisted growth of chemical gardens: Formation of dendrite structures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 289, 245-249.	2.3	9
57	Evolution of chemical gardens in aqueous solutions of polymers. Chemical Physics Letters, 2006, 417, 341-344.	1.2	21
58	Self-assembly in evaporated polymer solutions: Influence of the solution concentration. Journal of Colloid and Interface Science, 2006, 297, 534-540.	5.0	56
59	Patterning in rapidly evaporated polymer solutions: Formation of annular structures under evaporation of the poor solvent. Journal of Colloid and Interface Science, 2006, 300, 293-297.	5.0	16
60	Micrometrically scaled textured metallic hydrophobic interfaces validate the Cassieâ€“Baxter wetting hypothesis. Journal of Colloid and Interface Science, 2006, 302, 308-311.	5.0	74
61	Wetting Properties of the Multiscaled Nanostructured Polymer and Metallic Superhydrophobic Surfaces. Langmuir, 2006, 22, 9982-9985.	1.6	219
62	Mechanisms of mesoscopic patterning in evaporated polymer films deposited on tilted and vertical substrates. Journal of Materials Science, 2006, 41, 455-461.	1.7	6
63	The effect of controlled stretch on luminescence of Eu(III)(NO3)3(o-Phen)2 complex doped into PVDF film. Materials Letters, 2006, 60, 1911-1914.	1.3	19
64	Optical properties of the Eu(III)-La(III)-complex-doped polyolefine film and rod samples. , 2005, , .		0
65	Novel method of low-melting metal micropowders fabrication. Journal of Materials Processing Technology, 2005, 168, 367-371.	3.1	8
66	Mesoscopic and submicroscopic patterning in thin polymer films: Impact of the solvent. Materials Letters, 2005, 59, 2461-2464.	1.3	47
67	Formation of honeycomb patterns in evaporated polymer solutions: Influence of the molecular weight. Materials Letters, 2005, 59, 3553-3557.	1.3	51
68	Mesoscopic Patterning in Thin Polymer Films Formed under the Fast Dip-Coating Process. Macromolecular Materials and Engineering, 2005, 290, 114-121.	1.7	55
69	Self-assembled honeycomb polycarbonate films deposited on polymer piezoelectric substrates and their applications. Polymers for Advanced Technologies, 2005, 16, 299-304.	1.6	41
70	Surface-plasmon resonance with infrared excitation: Studies of phospholipid membrane growth. Journal of Applied Physics, 2005, 98, 093506.	1.1	22
71	Mesoscopic Patterning in Evaporated Polymer Solutions:Â New Experimental Data and Physical Mechanisms. Langmuir, 2005, 21, 9604-9609.	1.6	51
72	Polyethylene films doped with EU(III) complex: their optical properties and technological applications.. , 2004, 5351, 230.		2

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73	Self-organization in thin polycarbonate films and its optical and electro-optical applications. Journal of Materials Science, 2004, 39, 6639-6641.	1.7	13
74	Polyvinylidene fluorideâ€"piezoelectric polymer for integrated infrared optics applications. Optical Materials, 2004, 27, 429-434.	1.7	26
75	Low-density polyethylene films doped with europium(III) complex: their properties and applications. Polymers for Advanced Technologies, 2004, 15, 414-418.	1.6	29
76	Vibrational spectrum of PVDF and its interpretation. Polymer Testing, 2004, 23, 791-796.	2.3	370
77	Infrared optics applications of thin polyaniline emeraldine base films. Synthetic Metals, 2004, 140, 49-52.	2.1	17
78	Resonance absorption of coherent infrared radiation by thin polypropylene films and its technological applications. Applied Surface Science, 2003, 220, 125-135.	3.1	5
79	Preparation of Se-doped polyaniline emeraldine base films. Synthetic Metals, 2003, 139, 321-325.	2.1	16
80	Properties of Se-based infrared chalcogenide glasses using dynamical mechanical analysis. , 2003, , .		0
81	Infrared optics applications of thin polyaniline emeraldine base films. , 2003, , .		0
82	Optical properties and infrared optics applications of composite films based on polyethylene and low-melting-point chalcogenide glass. Optical Engineering, 2002, 41, 295.	0.5	9
83	<title>Development of a novel composite based on polyethylene and low-melting-point metal alloy</title>. , 2002, 4695, 465.		3
84	Development of a Novel Composite Based on Thermoplastic Polymers and Low Melting Point Thermoplastic Chalcogenide Glasses. Journal of Thermoplastic Composite Materials, 2002, 15, 511-523.	2.6	3
85	Mechanical and thermodynamic properties of infrared transparent low melting chalcogenide glass. Infrared Physics and Technology, 2002, 43, 397-399.	1.3	5
86	Study of water diffusion in polyacrylonitrile using IR fiber optic evanescent wave spectroscopy. Polymers for Advanced Technologies, 2002, 13, 1039-1045.	1.6	8
87	Thermal degradation of thermoplastic and thermosetting polymers induced by laser radiation and its study by FTIR spectroscopy. Polymer Degradation and Stability, 2001, 72, 125-131.	2.7	13
88	IR laser radiation induced changes in the IR absorption spectra of thermoplastic and thermosetting polymers. Journal of Optics, 2001, 3, 229-235.	1.5	18
89	Development of new near-infrared filters based on the â€œsandwichâ€•polymer-chalcogenide glass-polymer composites. Optical Engineering, 2001, 40, 661.	0.5	10
90	Development of the technology of contacting ZnSe infrared optical windows using polyethylene films. Optical Engineering, 2001, 40, 1754.	0.5	2

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91	<title>Optical properties of polymer/chalcogenide glass composite materials</title>. , 2000, 4097, 179.		4
92	<title>Investigation of water penetration in polystyrene by use of polymer-coated AgClBr fibers and development of new sensor intended for the FEWS spectroscopy of organic compounds in water</title>. , 2000, 4129, 305.		6
93	Infrared laser radiation induced changes in the IR absorption spectra of thin polymer films. Journal of Optics, 2000, 2, L38-L40.	1.5	3
94	Fiberoptic evanescent wave spectroscopy and its chemical, environmental and medical applications. , 2000, , .		0
95	Surface Plasmon Resonance Characterization of Photoswitchable Antigenâˆ’Antibody Interactions. Langmuir, 1999, 15, 3920-3923.	1.6	41
96	Use of polymer-coated AgClBr fibers for fiber optic evanascent wave spectroscopy (FEWS) of biological fluids. , 1999, 3570, 100.		5
97	Fiber optic evanescent wave spectroscopy (FEWS) for blood diagnosis: the use of polymer-coated AgClBr fibers and neural network analysis. , 1999, , .		7
98	<title>Transient electroluminescence under short and strong voltage pulses</title>. , 1997, , .		3
99	Transient uv electroluminescence from poly(p-phenylenevinylene) conjugated polymer induced by strong voltage pulses. Physical Review B, 1997, 56, R12702-R12705.	1.1	34
100	Transient Electroluminescence from PPV under Strong Voltage Pulses. Materials Research Society Symposia Proceedings, 1997, 488, 15.	0.1	0
101	Spatial light modulator based on a deformed-helix ferroelectric liquid crystal and a thin a-Si:H amorphous photoconductor. Applied Optics, 1997, 36, 455.	2.1	34
102	Combined interface plasmon polariton and xâ€ray reflectivity determination of the dielectric tensor in ultrathin liquid crystal films. Journal of Applied Physics, 1995, 78, 3323-3329.	1.1	3
103	Frequency dispersion of HTSC-film impedance in the MHz range. Journal of Superconductivity and Novel Magnetism, 1994, 7, 471-473.	0.5	1
104	Direct writing of cylindrical microlenses on polymer substrates. , 0, , .		1
105	2D photonic crystals deposited on polymer piezoelectric substrates - new kind of MOEMS. , 0, , .		1
106	What Can We Learn From The Vibration Of Drops Deposited On Rough Surfaces? Wetting Transitions Occurring On Rough Surfaces. , 0, , 33-52.		1