

Jakub Rysz

List of Publications by Year in descending order

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105
papers

2,190
citations

218381

26
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288905

40
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all docs

107
docs citations

107
times ranked

2734
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutual Diffusion of Model Acceptor/Donor Bilayers under Solvent Vapor Annealing as a Novel Route for Organic Solar Cell Fabrication. <i>Energies</i> , 2022, 15, 1033.	1.6	3
2	Electrically Switchable Film Structure of Conjugated Polymer Composites. <i>Materials</i> , 2022, 15, 2219.	1.3	0
3	Stability of oxygen-functionalized graphenic surfaces: Theoretical and experimental insights into electronic properties and wettability. <i>Applied Surface Science</i> , 2021, 539, 148190.	3.1	15
4	Free-standing TiO ₂ nanotubes decorated with spherical nickel nanoparticles as a cost-efficient electrocatalyst for oxygen evolution reaction. <i>RSC Advances</i> , 2021, 11, 219-228.	1.7	8
5	Temperature-Modulated Doping at Polymer Semiconductor Interfaces. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1384-1393.	2.0	0
6	Efficiency Boost in Dye-Sensitized Solar Cells by Post- Annealing UV-Ozone Treatment of TiO ₂ Mesoporous Layer. <i>Materials</i> , 2021, 14, 4698.	1.3	2
7	The pulsed laser ablation synthesis of colloidal iron oxide nanoparticles for the enhancement of TiO ₂ nanotubes photo-activity. <i>Applied Surface Science</i> , 2020, 530, 147097.	3.1	20
8	Extraordinary conduction increase in model conjugated/insulating polymer system induced by surface located electric dipoles. <i>Applied Materials Today</i> , 2020, 21, 100880.	2.3	3
9	Magnetron Sputtered Electron Blocking Layer as an Efficient Method to Improve Dye-Sensitized Solar Cell Performance. <i>Energies</i> , 2020, 13, 2690.	1.6	4
10	Phase Separation in PCDTBT:PCBM Blends: from Flory-Huggins Interaction Parameters to Ternary Phase Diagrams. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 1025-1033.	2.0	10
11	Biophysical and Biochemical Characteristics as Complementary Indicators of Melanoma Progression. <i>Analytical Chemistry</i> , 2019, 91, 9885-9892.	3.2	17
12	Influence of TiO ₂ Nanoparticles on Liquid Crystalline, Structural and Electrochemical Properties of (8Z)-N-(4-((Z)-(4-pentylphenylimino)methyl)benzylidene)-4-pentylbenzenamine. <i>Materials</i> , 2019, 12, 1097.	1.3	22
13	Sequential binary protein patterning on surface domains of thermo-responsive polymer blends cast by horizontal-dipping. <i>Materials Science and Engineering C</i> , 2019, 99, 1477-1484.	3.8	4
14	Thermal, structural and electrochemical properties of new aliphatic-aromatic imine with piperazine moieties blended with titanium dioxide. <i>Phase Transitions</i> , 2018, 91, 210-224.	0.6	6
15	Formation and characterization of one-dimensional ZnS nanowires for ZnS/P3HT hybrid polymer solar cells with improved efficiency. <i>Applied Surface Science</i> , 2018, 451, 180-190.	3.1	20
16	Engineering a Poly(3,4-ethylenedioxythiophene):(Polystyrene Sulfonate) Surface Using Self-Assembling Molecules—A Chemical Library Approach. <i>ACS Omega</i> , 2018, 3, 3631-3639.	1.6	12
17	Protein adsorption/desorption and antibody binding stoichiometry on silicon interferometric biosensors examined with TOF-SIMS. <i>Applied Surface Science</i> , 2018, 444, 187-196.	3.1	10
18	Study of TiO ₂ in anatase form on selected properties of new aliphatic-aromatic imines with bent shape towards organic electronics. <i>Liquid Crystals</i> , 2018, 45, 831-843.	0.9	9

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19	Hybrid Materials Based on l,d-Poly(lactic acid) and Single-Walled Carbon Nanotubes as Flexible Substrate for Organic Devices. <i>Polymers</i> , 2018, 10, 1271.	2.0	11
20	Adaptability of single melanoma cells to surfaces with distinct hydrophobicity and roughness. <i>Applied Surface Science</i> , 2018, 457, 881-890.	3.1	6
21	Between single ion magnets and macromolecules: a polymer/transition metal-based semi-solid solution. <i>Chemical Science</i> , 2018, 9, 7277-7286.	3.7	11
22	Synthesis and characterization of two new TiO ₂ -containing benzothiazole-based imine composites for organic device applications. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 721-739.	1.5	13
23	Influence of Acrylic Polymers Stereoregularity on Interface Interactions in Model Thin Film Systems. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800097.	1.1	1
24	Transition between stable hydrophilization and fast etching/hydrophilization of poly(methyl) methacrylate polymer using a novel atmospheric pressure dielectric barrier discharge source. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, 041303.	0.9	17
25	Contact pin-printing of albumin-fungicide conjugate for silicon nitride-based sensors biofunctionalization: Multi-technique surface analysis for optimum immunoassay performance. <i>Applied Surface Science</i> , 2017, 410, 79-86.	3.1	9
26	Relative Stability of Thiolate and Selenolate SAMs on Ag(111) Substrate Studied by Static SIMS. Oscillation in Stability of Consecutive Chemical Bonds. <i>Journal of Physical Chemistry C</i> , 2017, 121, 459-470.	1.5	13
27	Relative Thermal Stability of Thiolate- and Selenolate-Bonded Aromatic Monolayers on the Au(111) Substrate. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28031-28042.	1.5	33
28	Indirect immunoassay on functionalized silicon surface: Molecular arrangement, composition and orientation examined step-by-step with multi-technique and multivariate analysis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 150, 437-444.	2.5	13
29	Chemical stability of polymers under argon gas cluster ion beam and x-ray irradiation. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, .	0.6	7
30	Imaging and chemical surface analysis of biomolecular functionalization of monolithically integrated on silicon Mach-Zehnder interferometric immunosensors. <i>Applied Surface Science</i> , 2016, 385, 529-542.	3.1	18
31	Data on step-by-step atomic force microscopy monitoring of changes occurring in single melanoma cells undergoing ToF SIMS specialized sample preparation protocol. <i>Data in Brief</i> , 2016, 8, 1322-1332.	0.5	1
32	The formation of the Co ₃ O ₄ cobalt oxide within CoO substrate. <i>Corrosion Science</i> , 2016, 112, 536-541.	3.0	23
33	Multilayers of poly(styrene/± tert -butoxy- <i>i</i> %-vinylbenzyl-polyglycidol) microspheres with core-shell morphology: Characterization by AFM, SIMS and XPS. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 507, 200-209.	2.3	4
34	Comparing surface properties of melanoma cells using time of flight secondary ions mass spectrometry. <i>Analyst</i> , The, 2016, 141, 6217-6225.	1.7	5
35	Protocol of single cells preparation for time of flight secondary ion mass spectrometry. <i>Analytical Biochemistry</i> , 2016, 511, 52-60.	1.1	19
36	Orientation and biorecognition of immunoglobulin adsorbed on spin-cast poly(3-alkylthiophenes): Impact of polymer film crystallinity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 278-286.	2.5	15

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37	Self-organization of TiO ₂ nanotubes in mono-, di- and tri-ethylene glycol electrolytes. <i>Electrochimica Acta</i> , 2016, 204, 287-293.	2.6	15
38	Differentiation between Single Bladder Cancer Cells Using Principal Component Analysis of Time-of-Flight Secondary Ion Mass Spectrometry. <i>Analytical Chemistry</i> , 2015, 87, 3195-3201.	3.2	19
39	Oscillations in the Stability of Consecutive Chemical Bonds Revealed by Ion-Induced Desorption. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1336-1340.	7.2	17
40	Vertical and lateral morphology effects on solar cell performance for a thiophene-quinoline copolymer:PC ₇₀ BM blend. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6970-6979.	5.2	46
41	Imaging and spectroscopic comparison of multi-step methods to form DNA arrays based on the biotin-streptavidin system. <i>Analyst</i> , 2015, 140, 1127-1139.	1.7	15
42	X-ray fluorescence holography studies for a Cu ₃ Au crystal. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 364, 136-141.	0.6	3
43	Thiolate versus Selenolate: Structure, Stability, and Charge Transfer Properties. <i>ACS Nano</i> , 2015, 9, 4508-4526.	7.3	69
44	Glass-ceramics of LAS (Li ₂ O-Al ₂ O ₃ -SiO ₂) system enhanced by ion-exchange in KNO ₃ salt bath. <i>Journal of Non-Crystalline Solids</i> , 2015, 428, 90-97.	1.5	35
45	Odd-Even Effects in the Structure and Stability of Azobenzene-Substituted Alkanethiolates on Au(111) and Ag(111) Substrates. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25929-25944.	1.5	27
46	PDMS substrate stiffness affects the morphology and growth profiles of cancerous prostate and melanoma cells. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 41, 13-22.	1.5	62
47	Effects of Polythiophene Surface Structure on Adsorption and Conformation of Bovine Serum Albumin: A Multivariate and Multitechnique Study. <i>Langmuir</i> , 2014, 30, 13925-13933.	1.6	27
48	Immobilization of oligonucleotide probes on silicon surfaces using biotin-streptavidin system examined with microscopic and spectroscopic techniques. <i>Applied Surface Science</i> , 2014, 290, 199-206.	3.1	9
49	Temperature-responsive peptide-mimetic coating based on poly(N-methacryloyl-L-leucine): Properties, protein adsorption and cell growth. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 118, 270-279.	2.5	22
50	Composition of PbTe oxides obtained by different methods. <i>Materials Science in Semiconductor Processing</i> , 2014, 21, 20-25.	1.9	1
51	1-D polymeric photonic crystals as spectroscopic zero-power humidity sensors. <i>Microelectronic Engineering</i> , 2014, 115, 55-60.	1.1	23
52	Humidity and wetting effects in spin-coated blends of insulating polymers and conducting polyaniline doped with DBSA. <i>Journal of Applied Polymer Science</i> , 2013, 127, 2354-2361.	1.3	2
53	Pattern replication in blends of semiconducting and insulating polymers casted by horizontal dipping. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1419-1426.	2.4	5
54	Temperature and pH dual-responsive POEGMA-based coatings for protein adsorption. <i>Journal of Colloid and Interface Science</i> , 2013, 411, 247-256.	5.0	39

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55	Buried polymer/metal interfaces examined with Kelvin Probe Force Microscopy. <i>Thin Solid Films</i> , 2013, 531, 271-276.	0.8	11
56	Examination of polymer/metal interface modified by self-assembled monolayer by Kelvin probe force microscopy and secondary ion mass spectrometry. <i>Electrochimica Acta</i> , 2013, 104, 462-467.	2.6	5
57	Model immunoassay on silicon surfaces: Vertical and lateral nanostructure vs. protein coverage. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 103, 253-260.	2.5	23
58	Protein adsorption and covalent bonding to silicon nitride surfaces modified with organo-silanes: Comparison using AFM, angle-resolved XPS and multivariate ToF-SIMS analysis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 217-224.	2.5	42
59	Proteins grouped into a variety of regular micro-patterns by substrate-guided domains of self-assembling poly(ethylene oxide)/polystyrene blends. <i>Soft Matter</i> , 2012, 8, 5550.	1.2	6
60	Temperature and pH dual-responsive coatings of oligoperoxide-graft-poly(N-isopropylacrylamide): Wettability, morphology, and protein adsorption. <i>Journal of Colloid and Interface Science</i> , 2012, 387, 95-105.	5.0	45
61	Polymer blends spin-cast into films with complementary elements for electronics and biotechnology. <i>Journal of Applied Polymer Science</i> , 2012, 125, 4275-4284.	1.3	16
62	Reverse contrast and substructures in protein micro-patterns on 3D polymer surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 90, 144-151.	2.5	3
63	Spectroscopic and microscopic characterization of biosensor surfaces with protein/amino-organosilane/silicon structure. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 90, 159-168.	2.5	40
64	Tuning the Vertical Phase Separation in Polyfluorene:Fullerene Blend Films by Polymer Functionalization. <i>Chemistry of Materials</i> , 2011, 23, 2295-2302.	3.2	41
65	Spectroscopic and microscopic examination of protein adsorption and blocking of non-specific binding to silicon surfaces modified with APTES and GOPS. <i>Procedia Engineering</i> , 2011, 25, 334-337.	1.2	16
66	Protein coverage on silicon surfaces modified with amino-organic films: A study by AFM and angle-resolved XPS. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 80, 63-71.	2.5	22
67	Dendrites and pillars in spin cast blends of polyaniline or its oligomeric analogue. <i>Synthetic Metals</i> , 2010, 160, 2459-2466.	2.1	16
68	Device Performance of APFO/PCBM Solar Cells with Controlled Morphology. <i>Advanced Materials</i> , 2009, 21, 4398-4403.	11.1	52
69	Selective Protein Adsorption on Polymer Patterns Formed by Self-Organization and Soft Lithography. <i>Biomacromolecules</i> , 2009, 10, 2101-2109.	2.6	41
70	Ordering domains of spin cast blends of conjugated and dielectric polymers on surfaces patterned by soft- and photo-lithography. <i>Soft Matter</i> , 2009, 5, 234-241.	1.2	30
71	Conductivity of Thin Polymer Films Containing Polyaniline. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 485, 796-803.	0.4	8
72	Breath Figures in Polymer and Polymer Blend Films Spin-Coated in Dry and Humid Ambience. <i>Langmuir</i> , 2008, 24, 3517-3524.	1.6	65

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73	Integral Geometry Analysis of Fluorescence Micrographs for Quantitative Relative Comparison of Protein Adsorption onto Polymer Surfaces. <i>Langmuir</i> , 2008, 24, 10253-10258.	1.6	24
74	Polymer vs Solvent Diagram of Film Structures Formed in Spin-Cast Poly(3-alkylthiophene) Blends. <i>Macromolecules</i> , 2008, 41, 4802-4810.	2.2	55
75	Pattern Formation in Thin Polymer Films Containing Conducting Polyaniline. <i>Macromolecular Symposia</i> , 2008, 263, 47-52.	0.4	2
76	Swelling of poly(3-alkylthiophene) films exposed to solvent vapors and humidity: Evaluation of solubility parameters. <i>Synthetic Metals</i> , 2007, 157, 726-732.	2.1	91
77	Pattern replication in polyaniline-polystyrene thin films. <i>Synthetic Metals</i> , 2007, 157, 935-939.	2.1	14
78	Compositional Mismatch between Chemical Patterns on a Substrate and Polymer Blends Yielding Spin-Cast Films with Subpattern Periodicity. <i>Macromolecules</i> , 2007, 40, 2120-2125.	2.2	14
79	Structure Evolution in Layers of Polymer Blend Nanoparticles. <i>Langmuir</i> , 2007, 23, 7235-7240.	1.6	18
80	Humidity and solvent effects in spin-coated polythiophene-polystyrene blends. <i>Journal of Applied Polymer Science</i> , 2007, 105, 67-79.	1.3	43
81	Pattern guided structure formation in polymer films of asymmetric blends. <i>Surface Science</i> , 2006, 600, 1004-1011.	0.8	11
82	Influence of solvents and substrates on the morphology and the performance of low-bandgap polyfluorene: PCBM photovoltaic devices. , 2006, 6192, 339.		5
83	Monte Carlo simulations of phase separation in thin polymer blend films: scaling properties of morphological measures. <i>Polymer</i> , 2005, 46, 977-982.	1.8	16
84	Pattern replication examined with integral geometry approach: application to ion milling of polymer blend films. <i>Thin Solid Films</i> , 2005, 476, 358-365.	0.8	13
85	Multilayer formation in spin-coated thin films of low-bandgap polyfluorene:PCBM blends. <i>Journal of Physics Condensed Matter</i> , 2005, 17, L529-L534.	0.7	101
86	Composition Effects in Polymer Blends Spin-Cast on Patterned Substrates. <i>Macromolecules</i> , 2005, 38, 8486-8493.	2.2	40
87	Influence of humid atmosphere on phase separation in polyaniline-polystyrene thin films. <i>Synthetic Metals</i> , 2005, 155, 516-522.	2.1	22
88	Structures Formed in Spin-Cast Films of Polystyrene Blends with Poly(butyl methacrylate) Isomers. <i>Macromolecules</i> , 2004, 37, 7308-7315.	2.2	38
89	Lamellar structures formed in spin-cast blends of insulating and conducting polymers. <i>Synthetic Metals</i> , 2004, 144, 253-257.	2.1	28
90	Evolution of 3D structures in a phase-separating polymer blend film confined by symmetric flat walls. <i>European Physical Journal E</i> , 2003, 12, 211-214.	0.7	6

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91	Surface Patterns in Solvent-Cast Polymer Blend Films Analyzed with an Integral-Geometry Approach. <i>Macromolecules</i> , 2003, 36, 2419-2427.	2.2	59
92	Substrate-Determined Shape of Free Surface Profiles in Spin-Cast Polymer Blend Films. <i>Macromolecules</i> , 2003, 36, 4060-4067.	2.2	64
93	Substructure formation during pattern transposition from substrate into polymer blend film. <i>Europhysics Letters</i> , 2003, 62, 855-861.	0.7	25
94	Surface-directed phase separation in nanometer polymer films: self-stratification and pattern replication. <i>E-Polymers</i> , 2002, 2, .	1.3	1
95	Hydrodynamic-flow-driven phase evolution in a polymer blend film modified by diblock copolymers. <i>European Physical Journal E</i> , 2001, 5, 207-219.	0.7	16
96	Phase decomposition in polymer blend films cast on homogeneous substrates modified by self-assembled monolayers. <i>Vacuum</i> , 2001, 63, 297-305.	1.6	21
97	Phase decomposition in polymer blend films cast on substrates patterned with self-assembled monolayers. <i>Vacuum</i> , 2001, 63, 307-313.	1.6	47
98	Three-Dimensional Information on the Phase Domain Structure of Thin Films of Polymer Blends Revealed by Secondary Ion Mass Spectrometry. <i>Macromolecular Rapid Communications</i> , 2001, 22, 829-834.	2.0	42
99	Wetting transition in polyolefin blends studied by profiling techniques. <i>Macromolecular Symposia</i> , 2000, 149, 277-282.	0.4	2
100	Wetting transition in a binary polymer blend. <i>Europhysics Letters</i> , 2000, 50, 35-40.	0.7	21
101	Surface segregation in the minority component of the binary polymer mixture. <i>Vacuum</i> , 1999, 54, 273-277.	1.6	5
102	Depth profiling studies of the surface directed phase decomposition in thin polymer films. <i>Vacuum</i> , 1999, 54, 303-307.	1.6	17
103	Effect of deuterium substitution on the surface interactions in binary polymer mixtures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 2691-2702.	2.4	5
104	Surface enrichment-depletion duality in a binary polymer blend. <i>Europhysics Letters</i> , 1998, 43, 404-409.	0.7	8
105	Surface-directed spinodal decomposition modified by a surface active copolymer. <i>Europhysics Letters</i> , 1997, 40, 503-508.	0.7	14