

Jakub Rysz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

1,848
citations

24
h-index

36
g-index

107
ext. papers

2,007
ext. citations

4.7
avg. IF

4.28
L-index

#	Paper	IF	Citations
103	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	3.1	0
102	Temperature-Modulated Doping at Polymer Semiconductor Interfaces. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1384-1393	4	
101	Stability of oxygen-functionalized graphenic surfaces: Theoretical and experimental insights into electronic properties and wettability. <i>Applied Surface Science</i> , 2021 , 539, 148190	6.7	9
100	Magnetron Sputtered Electron Blocking Layer as an Efficient Method to Improve Dye-Sensitized Solar Cell Performance. <i>Energies</i> , 2020 , 13, 2690	3.1	0
99	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	3.5	4
98	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	6.7	10
97	Extraordinary conduction increase in model conjugated/insulating polymer system induced by surface located electric dipoles. <i>Applied Materials Today</i> , 2020 , 21, 100880	6.6	1
96	Free-standing TiO nanotubes decorated with spherical nickel nanoparticles as a cost-efficient electrocatalyst for oxygen evolution reaction.. <i>RSC Advances</i> , 2020 , 11, 219-228	3.7	2
95	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,	3.5	13
94	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	8.3	3
93	Biophysical and Biochemical Characteristics as Complementary Indicators of Melanoma Progression. <i>Analytical Chemistry</i> , 2019 , 91, 9885-9892	7.8	8
92	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	1.3	4
91	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	6.7	11
90	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	3.9	9
89	Protein adsorption/desorption and antibody binding stoichiometry on silicon interferometric biosensors examined with TOF-SIMS. <i>Applied Surface Science</i> , 2018 , 444, 187-196	6.7	8
88	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	2.3	9
87	Between single ion magnets and macromolecules: a polymer/transition metal-based semi-solid solution. <i>Chemical Science</i> , 2018 , 9, 7277-7286	9.4	6

86	Synthesis and characterization of two new TiO-containing benzothiazole-based imine composites for organic device applications. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 721-739	3	8
85	Influence of Acrylic Polymers Stereoregularity on Interface Interactions in Model Thin Film Systems. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1800097	2.6	
84	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,	4.5	8
83	Adaptability of single melanoma cells to surfaces with distinct hydrophobicity and roughness. <i>Applied Surface Science</i> , 2018 , 457, 881-890	6.7	3
82	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	2.9	11
81	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	6.7	8
80	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	3.8	12
79	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	3.8	27
78	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	6	10
77	Comparing surface properties of melanoma cells using time of flight secondary ions mass spectrometry. <i>Analyst, The</i> , 2016 , 141, 6217-6225	5	3
76	Protocol of single cells preparation for time of flight secondary ion mass spectrometry. <i>Analytical Biochemistry</i> , 2016 , 511, 52-60	3.1	16
75	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	6	13
74	Self-organization of TiO ₂ nanotubes in mono-, di- and tri-ethylene glycol electrolytes. <i>Electrochimica Acta</i> , 2016 , 204, 287-293	6.7	12
73	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, 030604	1.3	6
72	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	6.7	14
71	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, 1322-32	1.2	1
70	The formation of the Co ₃ O ₄ cobalt oxide within CoO substrate. <i>Corrosion Science</i> , 2016 , 112, 536-541	6.8	17
69	Multilayers of poly(styrene- <i>b</i> -tert-butoxy- <i>b</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	5.1	4

68	Oscillations in the stability of consecutive chemical bonds revealed by ion-induced desorption. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1336-40	16.4	17
67	Vertical and lateral morphology effects on solar cell performance for a thiophene-quinoxaline copolymer:PC70BM blend. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6970-6979	13	41
66	Imaging and spectroscopic comparison of multi-step methods to form DNA arrays based on the biotin-streptavidin system. <i>Analyst, The</i> , 2015 , 140, 1127-39	5	14
65	X-ray fluorescence holography studies for a Cu ₃ Au crystal. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 364, 136-141	1.2	3
64	Thiolate versus Selenolate: Structure, Stability, and Charge Transfer Properties. <i>ACS Nano</i> , 2015 , 9, 4508-4517	26.7	54
63	Glass-ceramics of LAS (Li ₂ O-Al ₂ O ₃ -Bi ₂ O ₃) system enhanced by ion-exchange in KNO ₃ salt bath. <i>Journal of Non-Crystalline Solids</i> , 2015 , 428, 90-97	3.9	23
62	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	3.8	19
61	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	4.1	42
60	Nachweis der Oszillation in der Stabilität konsekutiver chemischer Bindungen durch Ionen-induzierte Desorption. <i>Angewandte Chemie</i> , 2015 , 127, 1352-1356	3.6	
59	Differentiation between single bladder cancer cells using principal component analysis of time-of-flight secondary ion mass spectrometry. <i>Analytical Chemistry</i> , 2015 , 87, 3195-201	7.8	14
58	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, 270-9	6	15
57	Composition of PbTe oxides obtained by different methods. <i>Materials Science in Semiconductor Processing</i> , 2014 , 21, 20-25	4.3	1
56	1-D polymeric photonic crystals as spectroscopic zero-power humidity sensors. <i>Microelectronic Engineering</i> , 2014 , 115, 55-60	2.5	15
55	Effects of polythiophene surface structure on adsorption and conformation of bovine serum albumin: a multivariate and multitechnique study. <i>Langmuir</i> , 2014 , 30, 13925-33	4	22
54	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	6.7	7
53	Humidity and wetting effects in spin-cast blends of insulating polymers and conducting polyaniline doped with DBSA. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2354-2361	2.9	2
52	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	2.6	4
51	Temperature and pH dual-responsive POEGMA-based coatings for protein adsorption. <i>Journal of Colloid and Interface Science</i> , 2013 , 411, 247-56	9.3	35

50	Buried polymer/metal interfaces examined with Kelvin Probe Force Microscopy. <i>Thin Solid Films</i> , 2013 , 531, 271-276	2.2	10
49	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	6.7	5
48	Model immunoassay on silicon surfaces: vertical and lateral nanostructure vs. protein coverage. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 103, 253-60	6	22
47	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, 217-24	6	34
46	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	3.6	4
45	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, 95-103	9.3	39
44	Polymer blends spin-cast into films with complementary elements for electronics and biotechnology. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 4275-4284	2.9	7
43	Reverse contrast and substructures in protein micro-patterns on 3D polymer surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 90, 144-51	6	2
42	Spectroscopic and microscopic characterization of biosensor surfaces with protein/amino-organosilane/silicon structure. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 90, 159-68	6	38
41	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		9
40	Tuning the Vertical Phase Separation in Polyfluorene:Fullerene Blend Films by Polymer Functionalization. <i>Chemistry of Materials</i> , 2011 , 23, 2295-2302	9.6	39
39	Dendrites and pillars in spin cast blends of polyaniline or its oligomeric analogue. <i>Synthetic Metals</i> , 2010 , 160, 2459-2466	3.6	15
38	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	6	20
37	Device Performance of APFO-3/PCBM Solar Cells with Controlled Morphology. <i>Advanced Materials</i> , 2009 , 21, 4398-403	24	51
36	Selective protein adsorption on polymer patterns formed by self-organization and soft lithography. <i>Biomacromolecules</i> , 2009 , 10, 2101-9	6.9	39
35	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	3.6	28
34	Conductivity of Thin Polymer Films Containing Polyaniline. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 485, 796-803	0.5	7
33	Breath figures in polymer and polymer blend films spin-coated in dry and humid ambience. <i>Langmuir</i> , 2008 , 24, 3517-24	4	58

32	Integral geometry analysis of fluorescence micrographs for quantitative relative comparison of protein adsorption onto polymer surfaces. <i>Langmuir</i> , 2008 , 24, 10253-8	4	22
31	Polymer vs Solvent Diagram of Film Structures Formed in Spin-Cast Poly(3-alkylthiophene) Blends. <i>Macromolecules</i> , 2008 , 41, 4802-4810	5.5	51
30	Pattern Formation in Thin Polymer Films Containing Conducting Polyaniline. <i>Macromolecular Symposia</i> , 2008 , 263, 47-52	0.8	2
29	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	5.5	14
28	Structure evolution in layers of polymer blend nanoparticles. <i>Langmuir</i> , 2007 , 23, 7235-40	4	17
27	Humidity and solvent effects in spin-coated polythiophene/polystyrene blends. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 67-79	2.9	42
26	Swelling of poly(3-alkylthiophene) films exposed to solvent vapors and humidity: Evaluation of solubility parameters. <i>Synthetic Metals</i> , 2007 , 157, 726-732	3.6	82
25	Pattern replication in polyaniline/polystyrene thin films. <i>Synthetic Metals</i> , 2007 , 157, 935-939	3.6	13
24	Influence of solvents and substrates on the morphology and the performance of low-bandgap polyfluorene: PCBM photovoltaic devices 2006 , 6192, 339		4
23	Pattern guided structure formation in polymer films of asymmetric blends. <i>Surface Science</i> , 2006 , 600, 1004-1011	1.8	10
22	Multilayer formation in spin-coated thin films of low-bandgap polyfluorene:PCBM blends. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, L529-L534	1.8	81
21	Composition Effects in Polymer Blends Spin-Cast on Patterned Substrates. <i>Macromolecules</i> , 2005 , 38, 8486-8493	5.5	38
20	Influence of humid atmosphere on phase separation in polyaniline/polystyrene thin films. <i>Synthetic Metals</i> , 2005 , 155, 516-522	3.6	22
19	Monte Carlo simulations of phase separation in thin polymer blend films: scaling properties of morphological measures. <i>Polymer</i> , 2005 , 46, 977-982	3.9	16
18	Pattern replication examined with integral geometry approach: application to ion milling of polymer blend films. <i>Thin Solid Films</i> , 2005 , 476, 358-365	2.2	12
17	Structures Formed in Spin-Cast Films of Polystyrene Blends with Poly(butyl methacrylate) Isomers. <i>Macromolecules</i> , 2004 , 37, 7308-7315	5.5	34
16	Lamellar structures formed in spin-cast blends of insulating and conducting polymers. <i>Synthetic Metals</i> , 2004 , 144, 253-257	3.6	27
15	Substructure formation during pattern transposition from substrate into polymer blend film. <i>Europhysics Letters</i> , 2003 , 62, 855-861	1.6	24

14	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	1.5	6
13	Surface Patterns in Solvent-Cast Polymer Blend Films Analyzed with an Integral-Geometry Approach. <i>Macromolecules</i> , 2003 , 36, 2419-2427	5.5	56
12	Substrate-Determined Shape of Free Surface Profiles in Spin-Cast Polymer Blend Films. <i>Macromolecules</i> , 2003 , 36, 4060-4067	5.5	62
11	Hydrodynamic-flow-driven phase evolution in a polymer blend film modified by diblock copolymers. <i>European Physical Journal E</i> , 2001 , 5, 207-219	1.5	15
10	Phase decomposition in polymer blend films cast on homogeneous substrates modified by self-assembled monolayers. <i>Vacuum</i> , 2001 , 63, 297-305	3.7	21
9	Phase decomposition in polymer blend films cast on substrates patterned with self-assembled monolayers. <i>Vacuum</i> , 2001 , 63, 307-313	3.7	47
8	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	4.8	39
7	Wetting transition in polyolefin blends studied by profiling techniques. <i>Macromolecular Symposia</i> , 2000 , 149, 277-282	0.8	2
6	Wetting transition in a binary polymer blend. <i>Europhysics Letters</i> , 2000 , 50, 35-40	1.6	18
5	Surface segregation in the minority component of the binary polymer mixture. <i>Vacuum</i> , 1999 , 54, 273-277	3.7	5
4	Depth profiling studies of the surface directed phase decomposition in thin polymer films. <i>Vacuum</i> , 1999 , 54, 303-307	3.7	17
3	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	2.6	4
2	Surface enrichment-depletion duality in a binary polymer blend. <i>Europhysics Letters</i> , 1998 , 43, 404-409	1.6	7
1	Surface-directed spinodal decomposition modified by a surface active copolymer. <i>Europhysics Letters</i> , 1997 , 40, 503-508	1.6	13