

Juan Rodriguez-Hernandez

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128
papers

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h-index

61
g-index

133
ext. papers

4,457
ext. citations

6.3
avg, IF

5.96
L-index

#	Paper	IF	Citations
128	Toward Smart Nano-objects by self-assembly of block copolymers in solution. <i>Progress in Polymer Science</i> , 2005 , 30, 691-724	29.6	685
127	Reversible inside-out micellization of pH-responsive and water-soluble vesicles based on polypeptide diblock copolymers. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2026-7	16.4	615
126	Polymers for additive manufacturing and 4D-printing: Materials, methodologies, and biomedical applications. <i>Progress in Polymer Science</i> , 2019 , 94, 57-116	29.6	214
125	Wrinkled interfaces: Taking advantage of surface instabilities to pattern polymer surfaces. <i>Progress in Polymer Science</i> , 2015 , 42, 1-41	29.6	209
124	Towards hierarchically ordered functional porous polymeric surfaces prepared by the breath figures approach. <i>Progress in Polymer Science</i> , 2014 , 39, 510-554	29.6	186
123	Hierarchical Self-Assembly of Poly(Benzyl-L-glutamate)-Poly(ethylene glycol)-Poly(Benzyl-L-glutamate) Rod-Coil Rod Triblock Copolymers. <i>Macromolecules</i> , 2003 , 36, 3673-3683	5.5	171
122	Magnetic Nanocomposite Micelles and Vesicles. <i>Advanced Materials</i> , 2005 , 17, 712-718	24	155
121	Self-assembled nanostructures from peptide-synthetic hybrid block copolymers: complex, stimuli-responsive rod-coil architectures. <i>Faraday Discussions</i> , 2005 , 128, 179-92	3.6	91
120	pH-responsive micelles and vesicles nanocapsules based on polypeptide diblock copolymers. <i>New Biotechnology</i> , 2007 , 24, 81-5		90
119	Preparation of shell cross-linked nano-objects from hybrid-peptide block copolymers. <i>Biomacromolecules</i> , 2005 , 6, 2213-20	6.9	76
118	Self-organized hierarchical structures in polymer surfaces: self-assembled nanostructures within breath figures. <i>Langmuir</i> , 2009 , 25, 6493-9	4	71
117	Highly branched poly(L-lysine). <i>Biomacromolecules</i> , 2003 , 4, 249-58	6.9	59
116	Advances in the Fabrication of Antimicrobial Hydrogels for Biomedical Applications. <i>Materials</i> , 2017 , 10,	3.5	49
115	Hybrid materials achieved by polypeptide grafted magnetite nanoparticles through a dopamine biomimetic surface anchored initiator. <i>Polymer Chemistry</i> , 2013 , 4, 558-567	4.9	47
114	Fabrication of honeycomb-structured porous surfaces decorated with glycopolymers. <i>Langmuir</i> , 2010 , 26, 8552-8	4	47
113	Dendritic Graft Polypeptides. <i>Macromolecules</i> , 2002 , 35, 8718-8723	5.5	46
112	Toward Cell Selective Surfaces: Cell Adhesion and Proliferation on Breath Figures with Antifouling Surface Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6344-53	9.5	43

111	Honeycomb patterned surfaces functionalized with polypeptide sequences for recognition and selective bacterial adhesion. <i>Biomaterials</i> , 2013 , 34, 1453-60	15.6	42
110	Hierarchically structured multifunctional porous interfaces through water templated self-assembly of ternary systems. <i>Langmuir</i> , 2012 , 28, 9778-87	4	40
109	Thermotropic liquid crystal behavior on PBLG-PDMS-PBLG triblock copolymers. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 4668-4679	2.5	35
108	Fabrication of structured porous films by breath figures and phase separation processes: tuning the chemistry and morphology inside the pores using click chemistry. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3943-51	9.5	34
107	In vitro and in vivo evaluation of PEO-modified titanium for bone implant applications. <i>Surface and Coatings Technology</i> , 2018 , 347, 358-368	4.4	33
106	Nanostructured thermotropic PBLG-PDMS-PBLG block copolymers. <i>Polymer</i> , 2007 , 48, 3717-3725	3.9	33
105	Water-Soluble Pendant Copolymers Bearing Proline and Permethylated β -Cyclodextrin: pH-Dependent Catalytic Nanoreactors. <i>Macromolecules</i> , 2012 , 45, 7676-7683	5.5	32
104	Engineering polymer surfaces with variable chemistry and topography. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 2262-2271	2.5	31
103	Strategies to Fabricate Polypeptide-Based Structures via Ring-Opening Polymerization of N-Carboxyanhydrides. <i>Polymers</i> , 2017 , 9,	4.5	29
102	Control of the chemistry outside the pores in honeycomb patterned films. <i>Polymer Chemistry</i> , 2013 , 4, 4024	4.9	29
101	Breath figures method to control the topography and the functionality of polymeric surfaces in porous films and microspheres. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 851-859	2.5	27
100	Self-assemblies of magnetic nanoparticles and di-block copolymers: Magnetic micelles and vesicles. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 300, 71-74	2.8	27
99	Constructing robust and functional micropatterns on polystyrene surfaces by using deep UV irradiation. <i>Langmuir</i> , 2013 , 29, 2756-63	4	26
98	Linear Copolymers of Proline Methacrylate and Styrene as Catalysts for Aldol Reactions in Water: Effect of the Copolymer Aggregation on the Enantioselectivity. <i>Macromolecules</i> , 2011 , 44, 6268-6276	5.5	26
97	Adhesives based on polyurethane graft multiblock copolymers: Tack, rheology and first morphological analyses. <i>International Journal of Adhesion and Adhesives</i> , 2009 , 29, 1-8	3.4	26
96	Synthesis and lectin recognition studies of glycosylated polystyrene microspheres functionalized via thiol-para-fluorine click reaction. <i>Polymer Chemistry</i> , 2012 , 3, 3282	4.9	23
95	pH responsive surfaces with nanoscale topography. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 2982-2990	2.5	23
94	Antimicrobial 3D Porous Scaffolds Prepared by Additive Manufacturing and Breath Figures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37454-37462	9.5	22

93	Highly Efficient Antibacterial Surfaces Based on Bacterial/Cell Size Selective Microporous Supports. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44270-44280	9.5	22
92	Structured multistimuli-responsive functional polymer surfaces obtained by interfacial diffusion of amphiphilic block copolymers. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 1952-1961	2.5	22
91	Smart pH-Responsive Antimicrobial Hydrogel Scaffolds Prepared by Additive Manufacturing.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1337-1347	4.1	21
90	Boundary lubricant films under shear: effect of roughness and adhesion. <i>Journal of Chemical Physics</i> , 2007 , 126, 184906	3.9	20
89	Formation of multigradient porous surfaces for selective bacterial entrapment. <i>Biomacromolecules</i> , 2014 , 15, 3338-48	6.9	19
88	Poly(ethylene oxide) functionalized polyimide-based microporous films to prevent bacterial adhesion. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9716-24	9.5	18
87	Fabrication and superhydrophobic behavior of fluorinated microspheres. <i>Langmuir</i> , 2010 , 26, 16775-81	4	18
86	Tunable hierarchical assembly on polymer surfaces: combining microphase and macrophase separation in copolymer/homopolymer blends. <i>Langmuir</i> , 2008 , 24, 6391-4	4	18
85	Modification of poly(dimethylsiloxane) as a basis for surface wrinkle formation: Chemical and mechanical characterization. <i>Polymer</i> , 2016 , 98, 327-335	3.9	16
84	Functional pH-Responsive Polystyrene Microspheres Prepared by Surface Segregation of Diblock Copolymers. <i>Macromolecules</i> , 2007 , 40, 9549-9554	5.5	16
83	Structured assemblies of ferromagnetic particles through covalent immobilization on functionalized polymer surfaces obtained by surface segregation. <i>Langmuir</i> , 2007 , 23, 6879-82	4	16
82	Microfluidic Reactors Based on Rechargeable Catalytic Porous Supports: Heterogeneous Enzymatic Catalysis via Reversible Host-Guest Interactions. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4184-4191	8.5	15
81	Fabrication of micro and sub-micrometer wrinkled hydrogel surfaces through thermal and photocrosslinking processes. <i>Polymer</i> , 2016 , 101, 24-33	3.9	15
80	Glycopolymers obtained by chemical modification of well-defined block copolymers. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 2565-2577	2.5	15
79	Boundary lubricant polymer films: effect of cross-linking. <i>Langmuir</i> , 2013 , 29, 12936-49	4	14
78	Fabrication of 3D-Printed Biodegradable Porous Scaffolds Combining Multi-Material Fused Deposition Modeling and Supercritical CO Techniques. <i>Nanomaterials</i> , 2020 , 10,	5.4	13
77	Fabrication of biocompatible and efficient antimicrobial porous polymer surfaces by the Breath Figures approach. <i>Journal of Colloid and Interface Science</i> , 2018 , 513, 820-830	9.3	13
76	Tuning the pore composition by two simultaneous interfacial self-assembly processes: breath figures and coffee stain. <i>Langmuir</i> , 2014 , 30, 6134-41	4	13

75	Reinforcing the Hydrophobicity of Polymeric Surfaces from Fluorinated Star Polymers and Nanogels. <i>Macromolecules</i> , 2010 , 43, 1299-1308	5.5	13
74	Supramolecular structures from self-assembled poly(ϵ -benzyl-L-glutamate) β -polydimethylsiloxane β -poly(ϵ -benzyl-L-glutamate) triblock copolypeptides in thin films. <i>European Polymer Journal</i> , 2010 , 46, 891-899	5.2	13
73	Combining Breath Figures and Supercritical Fluids To Obtain Porous Polymer Scaffolds. <i>ACS Omega</i> , 2018 , 3, 12593-12599	3.9	13
72	Micro-wrinkled hydrogel patterned surfaces using pH-sensitive monomers. <i>Applied Surface Science</i> , 2018 , 457, 902-913	6.7	13
71	Hydrogels with Modulated Ionic Load for Mammalian Cell Harvesting with Reduced Bacterial Adhesion. <i>Biomacromolecules</i> , 2017 , 18, 1521-1531	6.9	12
70	Fabrication of 3D printed objects with controlled surface chemistry and topography. <i>European Polymer Journal</i> , 2018 , 98, 21-27	5.2	12
69	Patterning of individual Staphylococcus aureus bacteria onto photogenerated polymeric surface structures. <i>Polymer Chemistry</i> , 2015 , 6, 2677-2684	4.9	12
68	Design of polypeptide-functionalized polystyrene microspheres. <i>Biomacromolecules</i> , 2008 , 9, 1811-7	6.9	12
67	Wrinkling and Folding on Patched Elastic Surfaces: Modulation of the Chemistry and Pattern Size of Microwrinkled Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20188-20195	9.5	11
66	Fabrication of Functional Wrinkled Interfaces from Polymer Blends: Role of the Surface Functionality on the Bacterial Adhesion. <i>Polymers</i> , 2014 , 6, 2845-2861	4.5	11
65	Self-assembly of graft polyurethanes having both crystallizable poly(ϵ -caprolactone) blocks and soft poly(<i>n</i> -butyl acrylate) segments. <i>Thin Solid Films</i> , 2009 , 517, 3281-3286	2.2	11
64	Fabrication of hierarchical wrinkled morphologies through sequential UVO treatments. <i>Journal of Applied Polymer Science</i> , 2015 , 132,	2.9	10
63	Surface segregation of polypeptide-based block copolymer micelles: An approach to engineer nanostructured and stimuli responsive surfaces. <i>European Polymer Journal</i> , 2011 , 47, 2063-2068	5.2	10
62	Design and fabrication of biocompatible wrinkled hydrogel films with selective antibiofouling properties. <i>Materials Science and Engineering C</i> , 2019 , 97, 803-812	8.3	10
61	Chemical modification of block copolymers based on 2-hydroxyethyl acrylate to obtain amphiphilic glycopolymers. <i>European Polymer Journal</i> , 2015 , 62, 167-178	5.2	9
60	Versatile approach for the fabrication of functional wrinkled polymer surfaces. <i>Langmuir</i> , 2014 , 30, 13244-54	4	9
59	Facile one-pot exfoliation and integration of 2D layered materials by dispersion in a photocurable polymer precursor. <i>Nanoscale</i> , 2017 , 9, 10590-10595	7.7	9
58	Nanogels based on poly(vinyl acetate) for the preparation of patterned porous films. <i>Langmuir</i> , 2011 , 27, 4290-5	4	9

57	Hierarchical Functionalized Polymeric-Ceramic Coatings on Mg-Ca Alloys for Biodegradable Implant Applications. <i>Macromolecular Bioscience</i> , 2019 , 19, e1900179	5.5	8
56	Formation of responsive hierarchical wrinkled patterns on hydrogel films via multi-step methodology. <i>Polymer</i> , 2019 , 179, 121662	3.9	8
55	Polymers against Microorganisms 2017 ,		8
54	Single-step process to produce functionalized multiresponsive polymeric particles. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 3523-3533	2.5	8
53	Relationship Between Architecture and Adhesion in Polyurethane-Based Copolymers, 2. <i>Macromolecular Chemistry and Physics</i> , 2005 , 206, 2381-2389	2.6	8
52	Wrinkled Hydrogel Surfaces with Modulated Surface Chemistry and Topography: Evaluation As Supports for Cell Growth and Transplant.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 654-664	4.1	8
51	Chemical and Topographical Modification of Polycarbonate Surfaces through Diffusion/Photocuring Processes of Hydrogel Precursors Based on Vinylpyrrolidone. <i>Langmuir</i> , 2017 , 33, 1614-1622	4	7
50	Microwrinkled pH-sensitive hydrogel films and their role on the cell adhesion/proliferation. <i>Materials Science and Engineering C</i> , 2019 , 103, 109872	8.3	7
49	Micrometric Wrinkled Patterns Spontaneously Formed on Hydrogel Thin Films via Argon Plasma Exposure. <i>Molecules</i> , 2019 , 24,	4.8	7
48	Straightforward functionalization of breath figures: Simultaneous orthogonal host-guest and pH-responsive interfaces. <i>Journal of Colloid and Interface Science</i> , 2015 , 457, 272-80	9.3	7
47	Direct micrometer patterning and functionalization of polymer blend surfaces by using hot embossing. <i>European Polymer Journal</i> , 2014 , 59, 333-340	5.2	7
46	Electrowetting of Weak Polyelectrolyte-Coated Surfaces. <i>Langmuir</i> , 2017 , 33, 4996-5005	4	6
45	Strategies for the Fabrication of Wrinkled Polymer Surfaces 2019 , 19-59		6
44	Thermosensitive hydrogel platforms with modulated ionic load for optimal cell sheet harvesting. <i>European Polymer Journal</i> , 2018 , 103, 400-409	5.2	6
43	Hydrophilic polyisophthalamides containing poly(ethylene oxide) side chains: Synthesis, characterization, and physical properties. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 963-976	2.5	6
42	Fabrication of porous films from immiscible polymer blends: Role of the surface structure on the cell adhesion. <i>Polymer Testing</i> , 2020 , 91, 106797	4.5	6
41	Hybrid functionalized coatings on Metallic Biomaterials for Tissue Engineering. <i>Surface and Coatings Technology</i> , 2021 , 422, 127508	4.4	6
40	Aqueous micro and nanoreactors based on alternating copolymers of phenylmaleimide and vinylpyrrolidone bearing pendant l-proline stabilized with PEG grafted chains. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 1228-1236	2.5	5

39	Design of hybrid gradient porous surfaces with magnetic nanoparticles. <i>Polymer</i> , 2015 , 70, 100-108	3.9	5
38	Reversible functionalization of nanostructured polymer surfaces via stimuli-responsive interpolymer complexes. <i>European Polymer Journal</i> , 2013 , 49, 130-138	5.2	5
37	Functional micropatterned surfaces prepared by simultaneous UV-lithography and surface segregation of fluorinated copolymers. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 4902-4910	2.5	5
36	Versatile functional microstructured polystyrene-based platforms for protein patterning and recognition. <i>Biomacromolecules</i> , 2013 , 14, 3147-54	6.9	5
35	Nanopatterned polystyrene-b-poly(acrylic acid) surfaces to modulate cell-material interaction. <i>Materials Science and Engineering C</i> , 2017 , 75, 229-236	8.3	4
34	Immobilization of Polyoxometalates on Tailored Polymeric Surfaces. <i>Nanomaterials</i> , 2018 , 8,	5.4	4
33	Environmentally responsive particles: from superhydrophobic particle films to water-dispersible microspheres. <i>Langmuir</i> , 2010 , 26, 18617-20	4	4
32	Innovative procedure for precise deposition of wrinkled hydrogel films using direct inkjet printing. <i>Materials and Design</i> , 2020 , 194, 108959	8.1	4
31	Nano/Microstructured Antibacterial Surfaces 2017 , 125-154		3
30	Biocompatible fluorinated wrinkled hydrogel films with antimicrobial activity. <i>Materials Science and Engineering C</i> , 2020 , 114, 111031	8.3	3
29	Nano/Micro and Hierarchical Structured Surfaces in Polymer Blends 2014 , 357-421		3
28	Breath Figures 2020 ,		3
27	Antimicrobial micro/nanostructured functional polymer surfaces 2016 , 153-192		3
26	Honeycomb Films with Core-Shell Dispersed Phases Prepared by the Combination of Breath Figures and Phase Separation Process of Ternary Blends. <i>Langmuir</i> , 2017 , 33, 2872-2877	4	2
25	Introducing Chemical Functionalities to Microporous Surfaces: Strategies 2020 , 149-168		2
24	Nano-microporous structured surfaces prepared by the breath figures approach and their biorelated applications 2016 , 107-133		2
23	Wrinkles Obtained by Frontal Polymerization/Vitrification 2019 , 63-84		1
22	Breath Figures: Fabrication of Honeycomb Porous Films Induced by Marangoni Instabilities 2015 , 219-256		1

21	p Modulation of Pyrrolidine-Based Catalytic Polymers Used for the Preparation of Glycosyl Hydrazides at Physiological pH and Temperature.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1955-1967	4.1	1
20	Methodologies Involved in Manufacturing Self-Assembled Breath-Figures Patterns: Drop-Casting and Spin- and Dip-Coating [Characterization of Microporous Surfaces 2020 , 111-148		1
19	Nanostructured Interfaces by Surface Segregation of Block Copolymers 2015 , 99-142		1
18	Weak polyelectrolyte brushes: re-entrant swelling and self-organization. <i>Soft Matter</i> , 2020 , 16, 7727-7738	3.6	1
17	Smart Polymer Surfaces 2016 , 105-120		1
16	Introduction to Surface Instabilities and Wrinkle Formation 2019 , 3-18		1
15	Thermoresponsive microwrinkled hydrogel surfaces with modulated chemical composition. <i>Polymer</i> , 2021 , 231, 124109	3.9	1
14	General approach to prepare polymers bearing pendant isocyanate groups. <i>Polymer Chemistry</i> , 2020 , 11, 5140-5146	4.9	0
13	Additive Manufacturing of Polymers: 3D and 4D Printing, Methodologies, Type of Polymeric Materials, and Applications1-65		0
12	Thermosensitive hydrogels functionalized with pH sensitive COOH groups for bone cell harvesting. <i>European Polymer Journal</i> , 2022 , 169, 111131	5.2	0
11	Interference lithography with functional block copolymer blends: Hierarchical structuration and anisotropic wetting. <i>European Polymer Journal</i> , 2017 , 90, 25-36	5.2	
10	Phase Structures in Thin Films of Nanostructured Polymer Blends 2016 , 313-364		
9	Introduction to Micropatterned Surfaces 2020 , 1-11		
8	From Planar Surfaces to 3D Porous Interfaces 2020 , 189-206		
7	Breath-Figures Formation: Physical Aspects 2020 , 13-49		
6	Polymers Employed and Role of the Molecular Characteristics on the BFs Formation 2020 , 51-110		
5	Applications of the Porous Structures Obtained with the Breath-Figures Self-Assembly 2020 , 207-228		
4	Hierarchically Ordered Microporous Surfaces 2020 , 169-187		

3 Nonconventional Methods for Patterning Polymer Surfaces **2015**, 1-21

2 Honeycomb Structured Films Prepared by Breath Figures: Fabrication and Application for Biorecognition Purposes **2015**, 237-271

1 Micro- and Nano-patterned Hydrogels Fabricated by Taking Advantage of Surface Instabilities **2019**, 183-204