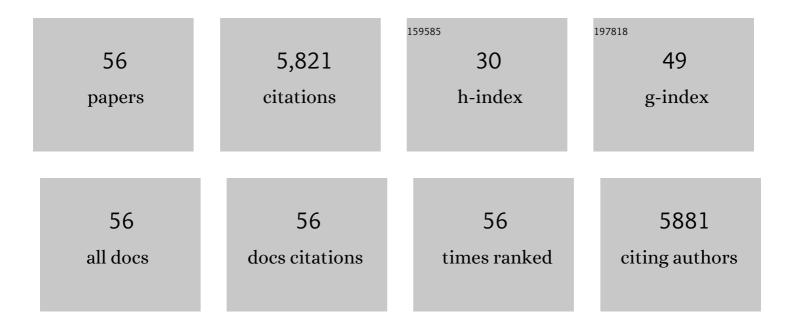
## Ricardo Ruiz

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Self-assembly for electronics. MRS Bulletin, 2020, 45, 807-814.	3.5	10
2	Path to Move Beyond the Resolution Limit with Directed Self-Assembly. ACS Applied Materials & Interfaces, 2019, 11, 20333-20340.	8.0	4
3	Heat-assisted magnetic recording media materials. MRS Bulletin, 2018, 43, 93-99.	3.5	32
4	Line Roughness in Lamellae-Forming Block Copolymer Films. Macromolecules, 2017, 50, 1037-1046.	4.8	17
5	Self-Registered Self-Assembly of Block Copolymers. ACS Nano, 2017, 11, 7666-7673.	14.6	20
6	Self-Assembly and Directed Assembly of Polymer Grafted Nanocrystals via Solvent Annealing. Macromolecules, 2017, 50, 9636-9646.	4.8	14
7	Directed self-assembly of high-chi block copolymer for nano fabrication of bit patterned media via solvent annealing. Nanotechnology, 2016, 27, 415601.	2.6	19
8	Directed Self-Assembly of Triblock Copolymer on Chemical Patterns for Sub-10-nm Nanofabrication <i>via</i> Solvent Annealing. ACS Nano, 2016, 10, 7855-7865.	14.6	62
9	Nanoscale chemical imaging by photoinduced force microscopy. Science Advances, 2016, 2, e1501571.	10.3	228
10	Strong Coupling of Plasmon and Nanocavity Modes for Dual-Band, Near-Perfect Absorbers and Ultrathin Photovoltaics. ACS Photonics, 2016, 3, 456-463.	6.6	61
11	Special Section Guest Editorial: Alternative Lithographic Technologies V. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2016, 15, 031601.	0.9	0
12	Template–polymer commensurability and directed selfâ€assembly block copolymer lithography. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 595-603.	2.1	26
13	Double-Patterned Sidewall Directed Self-Assembly and Pattern Transfer of Sub-10 nm PTMSS- <i>b</i> -PMOST. ACS Applied Materials & Interfaces, 2015, 7, 13476-13483.	8.0	60
14	Special Section Guest Editorial: Alternative Lithographic Technologies IV. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2015, 14, 031201.	0.9	0
15	Bit-Patterned Magnetic Recording: Theory, Media Fabrication, and Recording Performance. IEEE Transactions on Magnetics, 2015, 51, 1-42.	2.1	179
16	Transfer of self-aligned spacer patterns for single-digit nanofabrication. Nanotechnology, 2015, 26, 085304.	2.6	19
17	The Limits of Lamellae-Forming PS- <i>b</i> -PMMA Block Copolymers for Lithography. ACS Nano, 2015, 9, 7506-7514.	14.6	128
18	Special Section Guest Editorial: Alternative Lithographic Technologies. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2014, 13, 031301.	0.9	0

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#	Article	IF	CITATIONS
19	Bit patterned media optimization at 1 Tdot/in2 by post-annealing. Journal of Applied Physics, 2014, 116, .	2.5	12
20	Ordering poly(trimethylsilyl styreneâ€ <i>block</i> â€ <scp><i>D</i>,<i>L</i></scp> â€lactide) block copolymers in thin films by solvent annealing using a mixture of domainâ€selective solvents. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 36-45.	2.1	25
21	Evolutionary Optimization of Directed Self-Assembly of Triblock Copolymers on Chemically Patterned Substrates. ACS Macro Letters, 2014, 3, 747-752.	4.8	64
22	Self-Assembly Based Plasmonic Arrays Tuned by Atomic Layer Deposition for Extreme Visible Light Absorption. Nano Letters, 2013, 13, 3352-3357.	9.1	118
23	Bit Patterned Media at 1 Tdot/in <sup>2</sup> and Beyond. IEEE Transactions on Magnetics, 2013, 49, 773-778.	2.1	75
24	Topcoat Approaches for Directed Self-Assembly of Strongly Segregating Block Copolymer Thin Films. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 55-58.	0.3	52
25	Fabrication of templates with rectangular bits on circular tracks by combining block copolymer directed self-assembly and nanoimprint lithography. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2012, 11, 031405-1.	0.9	30
26	Image quality and pattern transfer in directed self assembly with block-selective atomic layer deposition. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, .	1.2	52
27	Integration of Servo and High Bit Aspect Ratio Data Patterns on Nanoimprint Templates for Patterned Media. IEEE Transactions on Magnetics, 2012, 48, 2757-2760.	2.1	11
28	Fabrication of templates with rectangular bits on circular tracks by combining block copolymer directed self-assembly and nanoimprint lithography. , 2012, , .		4
29	Directed Self-Assembly of POSS Containing Block Copolymer on Lithographically Defined Chemical Template with Morphology Control by Solvent Vapor. Macromolecules, 2012, 45, 292-304.	4.8	91
30	Rectangular Patterns Using Block Copolymer Directed Assembly for High Bit Aspect Ratio Patterned Media. ACS Nano, 2011, 5, 79-84.	14.6	107
31	Impact of Out-of-Plane Translational Order in Block Copolymer Lithography. Macromolecules, 2011, 44, 9196-9204.	4.8	12
32	Fabrication of chevron patterns for patterned media with block copolymer directed assembly. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, 06F204.	1.2	14
33	20nm Pitch Directed Block Copolymer Assembly Using Solvent Annealing for Bit Patterned Media. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 145-148.	0.3	22
34	High-Resolution PFPE-based Molding Techniques for Nanofabrication of High-Pattern Density, Sub-20 nm Features: A Fundamental Materials Approach. Nano Letters, 2010, 10, 1421-1428.	9.1	96
35	Practical implementation of order parameter calculation for directed assembly of block copolymer thin films. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2589-2603.	2.1	13
36	Magnetic recording at 1.5ÂPbÂmâ~'2 using an integrated plasmonic antenna. Nature Photonics, 2010, 4, 484-488.	31.4	412

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#	Article	IF	CITATIONS
37	Nine-fold density multiplication of hcp lattice pattern by directed self-assembly of block copolymer. Polymer, 2009, 50, 4250-4256.	3.8	45
38	Bit-Patterned Magnetic Recording: Nanoscale Magnetic Islands for Data Storage. , 2009, , 237-274.		22
39	Density Multiplication and Improved Lithography by Directed Block Copolymer Assembly. Science, 2008, 321, 936-939.	12.6	1,099
40	Control of Self-Assembly of Lithographically Patternable Block Copolymer Films. ACS Nano, 2008, 2, 1396-1402.	14.6	149
41	Rapid directed self assembly of lamellar microdomains from a block copolymer containing hybrid. Applied Physics Letters, 2007, 91, 143106.	3.3	24
42	Control of Morphology Orientation in Lithographically Patternable Diblock Copolymers. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 519-522.	0.3	4
43	Polymer self assembly in semiconductor microelectronics. IBM Journal of Research and Development, 2007, 51, 605-633.	3.1	397
44	Induced Orientational Order in Symmetric Diblock Copolymer Thin Films. Advanced Materials, 2007, 19, 587-591.	21.0	124
45	Directed Assembly of Lamellae- Forming Block Copolymers by Using Chemically and Topographically Patterned Substrates. Advanced Materials, 2007, 19, 607-611.	21.0	196
46	Local Defectivity Control of 2D Selfâ€Assembled Block Copolymer Patterns. Advanced Materials, 2007, 19, 2157-2162.	21.0	92
47	Growth dynamics of pentacene thin films: Real-time synchrotron x-ray scattering study. Physical Review B, 2006, 73, .	3.2	56
48	Thickness Dependence of Mobility in Pentacene Thin-Film Transistors. Advanced Materials, 2005, 17, 1795-1798.	21.0	309
49	Early stages of pentacene film growth on silicon oxide. Organic Electronics, 2004, 5, 257-263.	2.6	84
50	Pentacene Thin Film Growth. Chemistry of Materials, 2004, 16, 4497-4508.	6.7	588
51	Structure of pentacene thin films. Applied Physics Letters, 2004, 85, 4926-4928.	3.3	163
52	Dynamic Scaling, Island Size Distribution, and Morphology in the Aggregation Regime of Submonolayer Pentacene Films. Physical Review Letters, 2003, 91, 136102.	7.8	172
53	Pentacene ultrathin film formation on reduced and oxidized Si surfaces. Physical Review B, 2003, 67, .	3.2	204
54	Pulsed laser deposition of conductive metallo-dielectric optical filters. Applied Physics A: Materials Science and Processing, 2002, 74, 307-310.	2.3	3

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Growth and Morphology of Pentacene Films on Oxide Surfaces. Materials Research Society Symposia 0.1 0 Proceedings. 2001. 708. 10541.	#	Article	IF	CITATIONS
	55	Growth and Morphology of Pentacene Films on Oxide Surfaces. Materials Research Society Symposia Proceedings, 2001, 708, 10541.	0.1	0

56 <title>Injection of light into a planar dielectric waveguide of metallic walls</title>., 2001,,.