

Gabriele Seguini

List of Publications by Year in descending order

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83
papers

1,874
citations

218677

26
h-index

315739

38
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84
all docs

84
docs citations

84
times ranked

1829
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of spin casting solvent on the self-assembly of silicon-containing block copolymer thin films via high temperature thermal treatment. <i>Polymer International</i> , 2022, 71, 426-435.	3.1	3
2	Doping of silicon with phosphorus end-terminated polymers: source characterization and dopant diffusion in SiO ₂ . <i>Journal of Materials Chemistry C</i> , 2021, 9, 4020-4028.	5.5	8
3	Silicon Doping by Polymer Grafting: Size Distribution Matters. <i>ACS Applied Polymer Materials</i> , 2021, 3, 6383-6393.	4.4	8
4	Doping of silicon by phosphorus end-terminated polymers: drive-in and activation of dopants. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10229-10237.	5.5	17
5	Thermodynamics and ordering kinetics in asymmetric PS- <i>b</i> -PMMA block copolymer thin films. <i>Soft Matter</i> , 2020, 16, 5525-5533.	2.7	8
6	Effect of the Density of Reactive Sites in P(S- <i>r</i> -MMA) Film during Al ₂ O ₃ Growth by Sequential Infiltration Synthesis. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900503.	3.7	19
7	Electronic band structures of undoped and P-doped Si nanocrystals embedded in SiO ₂ . <i>Journal of Materials Chemistry C</i> , 2018, 6, 119-126.	5.5	8
8	Control of Doping Level in Semiconductors <i>via</i> Self-Limited Grafting of Phosphorus End-Terminated Polymers. <i>ACS Nano</i> , 2018, 12, 178-186.	14.6	35
9	Development and Synchrotron-Based Characterization of Al and Cr Nanostructures as Potential Calibration Samples for 3D Analytical Techniques. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700866.	1.8	12
10	Analysis of phosphorus-end capped functional polymers, from bulk to ultrathin films. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
11	Hierarchical Order in Dewetted Block Copolymer Thin Films on Chemically Patterned Surfaces. <i>ACS Nano</i> , 2018, 12, 7076-7085.	14.6	22
12	Deterministic doping via self-limited grafting of phosphorus end-terminated polymers. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
13	Boron-terminated polystyrene as potential spin-on dopant for microelectronic applications. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
14	Trimethylaluminum Diffusion in PMMA Thin Films during Sequential Infiltration Synthesis: In Situ Dynamic Spectroscopic Ellipsometric Investigation. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801016.	3.7	44
15	From grafting to to grafting from. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
16	Ordering kinetics in two-dimensional hexagonal pattern of cylinder-forming PS- b -PMMA block copolymer thin films: Dependence on the segregation strength. <i>Physical Review Materials</i> , 2018, 2, .	2.4	8
17	Effect of Entrapped Solvent on the Evolution of Lateral Order in Self-Assembled P(S- <i>r</i> -MMA)/PS- <i>b</i> -PMMA Systems with Different Thicknesses. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31215-31223.	8.0	15
18	Toward Lateral Length Standards at the Nanoscale Based on Diblock Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15685-15697.	8.0	14

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19	Nanoscale control of Si nanoparticles within a 2D hexagonal array embedded in SiO ₂ thin films. <i>Nanotechnology</i> , 2017, 28, 014001.	2.6	4
20	GISAXS Analysis of the In-Depth Morphology of Thick PS- <i>b</i> -PMMA Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11054-11063.	8.0	24
21	Magnetization switching in high-density magnetic nanodots by a fine-tune sputtering process on a large-area diblock copolymer mask. <i>Nanoscale</i> , 2017, 9, 16981-16992.	5.6	10
22	TGA-GC-MS quantitative analysis of phosphorus-end capped functional polymers in bulk and ultrathin films. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 128, 238-245.	5.5	16
23	Influence of block copolymer feature size on reactive ion etching pattern transfer into silicon. <i>Nanotechnology</i> , 2017, 28, 404001.	2.6	8
24	High temperature surface neutralization process with random copolymers for block copolymer self-assembly. <i>Polymer International</i> , 2017, 66, 459-467.	3.1	21
25	Molar mass and composition effects on the thermal stability of functional P(S- <i>r</i> -MMA) random copolymers for nanolithographic applications. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 581-588.	3.4	4
26	Micrometer-Scale Ordering of Silicon-Containing Block Copolymer Thin Films via High-Temperature Thermal Treatments. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9897-9908.	8.0	19
27	Modeling of phosphorus diffusion in silicon oxide and incorporation in silicon nanocrystals. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3531-3539.	5.5	10
28	Ozone-Based Sequential Infiltration Synthesis of Al ₂ O ₃ Nanostructures in Symmetric Block Copolymer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33933-33942.	8.0	29
29	Surface engineering with functional random copolymers for nanolithographic applications. <i>AIP Conference Proceedings</i> , 2016, . .	0.4	1
30	Neutral wetting brush layers for block copolymer thin films using homopolymer blends. <i>AIP Conference Proceedings</i> , 2016, . .	0.4	0
31	Synthesis and characterization of P- <i>l</i> -layer in SiO ₂ by monolayer doping. <i>Nanotechnology</i> , 2016, 27, 075606.	2.6	27
32	Composition of ultrathin binary polymer brushes by thermogravimetry-gas chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3155-3163.	3.7	6
33	Evolution of shape, size, and areal density of a single plane of Si nanocrystals embedded in SiO ₂ matrix studied by atom probe tomography. <i>RSC Advances</i> , 2016, 6, 3617-3622.	3.6	14
34	Enhanced Lateral Ordering in Cylinder Forming PS- <i>b</i> -PMMA Block Copolymers Exploiting the Entrapped Solvent. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8280-8288.	8.0	22
35	Neutral wetting brush layers for block copolymer thin films using homopolymer blends processed at high temperatures. <i>Nanotechnology</i> , 2015, 26, 415603.	2.6	15
36	Resistive Switching in High-Density Nanodevices Fabricated by Block Copolymer Self-Assembly. <i>ACS Nano</i> , 2015, 9, 2518-2529.	14.6	72

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37	Thickness and Microdomain Orientation of Asymmetric PS- <i>b</i> -PMMA Block Copolymer Films Inside Periodic Gratings. ACS Applied Materials & Interfaces, 2015, 7, 23615-23622.	8.0	11
38	Thermal Stability of Functional P(S- <i>r</i> -MMA) Random Copolymers for Nanolithographic Applications. ACS Applied Materials & Interfaces, 2015, 7, 3920-3930.	8.0	28
39	Thermodynamic stability of high phosphorus concentration in silicon nanostructures. Nanoscale, 2015, 7, 14469-14475.	5.6	33
40	Ultrathin Random Copolymer-Grafted Layers for Block Copolymer Self-Assembly. ACS Applied Materials & Interfaces, 2015, 7, 10944-10951.	8.0	71
41	Fabrication of periodic arrays of metallic nanoparticles by block copolymer templates on HfO ₂ substrates. Nanotechnology, 2015, 26, 215301.	2.6	11
42	Scaling of correlation length in lamellae forming PS- <i>b</i> -PMMA thin films upon high temperature rapid thermal treatments. Journal of Materials Chemistry C, 2015, 3, 8618-8624.	5.5	29
43	Magnetic hysteresis in array of magnetic nanostructures by block copolymers. , 2015, , .		0
44	Silicon crystallization in nanodot arrays organized by block copolymer lithography. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	3
45	Evolution of lateral ordering in symmetric block copolymer thin films upon rapid thermal processing. Nanotechnology, 2014, 25, 275601.	2.6	26
46	High Aspect Ratio PS- <i>b</i> -PMMA Block Copolymer Masks for Lithographic Applications. ACS Applied Materials & Interfaces, 2014, 6, 21389-21396.	8.0	35
47	Solid-state dewetting of ultra-thin Au films on SiO ₂ and HfO ₂ . Nanotechnology, 2014, 25, 495603.	2.6	41
48	Thermally induced self-assembly of cylindrical nanodomains in low molecular weight PS- <i>b</i> -PMMA thin films. Nanotechnology, 2014, 25, 045301.	2.6	31
49	Thermally induced orientational flipping of cylindrical phase diblock copolymers. Journal of Materials Chemistry C, 2014, 2, 2175-2182.	5.5	20
50	Characterization of ultra-thin polymeric films by Gas chromatography-Mass spectrometry hyphenated to thermogravimetry. Journal of Chromatography A, 2014, 1368, 204-210.	3.7	31
51	Ordering dynamics in symmetric PS- <i>b</i> -PMMA diblock copolymer thin films during rapid thermal processing. Journal of Materials Chemistry C, 2014, 2, 6655-6664.	5.5	54
52	Flash grafting of functional random copolymers for surface neutralization. Journal of Materials Chemistry C, 2014, 2, 4909-4917.	5.5	43
53	Fine Tuning of Lithographic Masks through Thin Films of PS- <i>b</i> -PMMA with Different Molar Mass by Rapid Thermal Processing. ACS Applied Materials & Interfaces, 2014, 6, 7180-7188.	8.0	64
54	Quantification of phosphorus diffusion and incorporation in silicon nanocrystals embedded in silicon oxide. Surface and Interface Analysis, 2014, 46, 393-396.	1.8	26

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55	ToF-SIMS study of phosphorus diffusion in low-dimensional silicon structures. Surface and Interface Analysis, 2013, 45, 386-389.	1.8	12
56	Al ₂ O ₃ Passivation on c-si Surfaces for Low Temperature Solar Cell Applications. Energy Procedia, 2013, 38, 872-880.	1.8	1
57	Collective behavior of block copolymer thin films within periodic topographical structures. Nanotechnology, 2013, 24, 245301.	2.6	17
58	On the Thermal Stability of PS- <i>b</i> -PMMA Block and P(S- <i>r</i> -MMA) Random Copolymers for Nanopatterning Applications. Macromolecules, 2013, 46, 8224-8234.	4.8	43
59	Si surface passivation by Al ₂ O ₃ thin films deposited using a low thermal budget atomic layer deposition process. Applied Physics Letters, 2013, 102, .	3.3	30
60	In-plane organization of silicon nanocrystals embedded in SiO ₂ thin films. Nanotechnology, 2013, 24, 075302.	2.6	13
61	Rapid thermal processing of self-assembling block copolymer thin films. Nanotechnology, 2013, 24, 315601.	2.6	72
62	Scaling size of the interplay between quantum confinement and surface related effects in nanostructured silicon. Applied Physics Letters, 2013, 103, .	3.3	33
63	Surface passivation for ultrathin Al ₂ O ₃ layers grown at low temperature by thermal atomic layer deposition. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 732-736.	1.8	13
64	Fabrication of well-ordered arrays of silicon nanocrystals using a block copolymer mask. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1477-1484.	1.8	4
65	Electronic properties at the oxide interface with silicon and germanium through x-ray induced oxide charging. Applied Physics Letters, 2012, 101, 211606.	3.3	19
66	Atomic layer deposited TiO ₂ for implantable brain-chip interfacing devices. Thin Solid Films, 2012, 520, 4745-4748.	1.8	15
67	The energy band alignment of Si nanocrystals in SiO ₂ . Applied Physics Letters, 2011, 99, .	3.3	37
68	The effect of random copolymer on the characteristic dimensions of cylinder-forming PS- <i>b</i> -PMMA thin films. Nanotechnology, 2011, 22, 185304.	2.6	27
69	The fabrication of tunable nanoporous oxide surfaces by block copolymer lithography and atomic layer deposition. Nanotechnology, 2011, 22, 335303.	2.6	23
70	Charging phenomena in dielectric/semiconductor heterostructures during x-ray photoelectron spectroscopy measurements. Journal of Applied Physics, 2011, 110, .	2.5	62
71	Si nanocrystal synthesis in HfO ₂ /SiO ₂ /HfO ₂ multilayer structures. Nanotechnology, 2010, 21, 055606.	2.6	15
72	XPS and IPE analysis of HfO ₂ band alignment with high-mobility semiconductors. Materials Science in Semiconductor Processing, 2008, 11, 221-225.	4.0	18

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73	Energy band alignment at TiO ₂ /Si interface with various interlayers. Journal of Applied Physics, 2008, 103, .	2.5	63
74	Conduction band offset of HfO ₂ on GaAs. Applied Physics Letters, 2007, 91, .	3.3	46
75	Energy band alignment of HfO ₂ on Ge. Journal of Applied Physics, 2006, 100, 093718.	2.5	40
76	X-ray photoelectron spectroscopy study of energy-band alignments of Lu ₂ O ₃ on Ge. Surface and Interface Analysis, 2006, 38, 494-497.	1.8	28
77	Atomic Layer Deposition of Lu Silicate Films Using [(Me ₃ Si) ₂ N] ₃ Lu. Journal of the Electrochemical Society, 2006, 153, F271.	2.9	10
78	Band alignment at the La ₂ Hf ₂ O ₇ /Si interface. Applied Physics Letters, 2006, 88, 202903.	3.3	31
79	Effects of the oxygen precursor on the electrical and structural properties of HfO ₂ films grown by atomic layer deposition on Ge. Applied Physics Letters, 2005, 87, 112904.	3.3	52
80	Energy-band diagram of metal/Lu ₂ O ₃ /silicon structures. Applied Physics Letters, 2004, 85, 5316-5318.	3.3	60
81	Structural and Electrical Properties of HfO ₂ Films Grown by Atomic Layer Deposition on Si, Ge, GaAs and GaN. Materials Research Society Symposia Proceedings, 2003, 786, 6141.	0.1	2
82	Experimental Determination of the Band Offset of Rare Earth Oxides on Various Semiconductors. , 0, , 269-283.		4
83	Al ₂ O ₃ Dot and Antidot Array Synthesis in Hexagonally Packed Poly(styrene- <i>block</i> -methyl methacrylate) Nanometer-Thick Films for Nanostructure Fabrication. ACS Applied Nano Materials, 0, , .	5.0	2