

Charles T Rettner

List of Publications by Year in descending order

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32
papers

1,769
citations

361413

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h-index

477307

29
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32
all docs

32
docs citations

32
times ranked

1491
citing authors

#	ARTICLE	IF	CITATIONS
1	Dense Self-Assembly on Sparse Chemical Patterns: Rectifying and Multiplying Lithographic Patterns Using Block Copolymers. <i>Advanced Materials</i> , 2008, 20, 3155-3158.	21.0	324
2	Observation of the Role of Subcritical Nuclei in Crystallization of a Glassy Solid. <i>Science</i> , 2009, 326, 980-984.	12.6	169
3	Effect of atomic reagent approach geometry on reactivity: Reactions of aligned Ca(1P1) with HCl, Cl ₂ , and CCl ₄ . <i>Journal of Chemical Physics</i> , 1982, 77, 2416-2429.	3.0	168
4	H+D ₂ reaction dynamics. Determination of the product state distributions at a collision energy of 1.3 eV. <i>Journal of Chemical Physics</i> , 1984, 80, 4142-4156.	3.0	157
5	Direct observation of amorphous to crystalline phase transitions in nanoparticle arrays of phase change materials. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	94
6	Effect of atomic reagent approach geometry on electronic state branching: The Ca(1P1) + HCl reaction. <i>Journal of Chemical Physics</i> , 1981, 75, 3636-3637.	3.0	85
7	Measurement of product alignment in beam-gas chemiluminescent reactions. <i>Journal of Chemical Physics</i> , 1981, 75, 2222-2230.	3.0	80
8	Directed Self-Assembly of Silicon-Containing Block Copolymer Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3323-3328.	8.0	68
9	Laser two-photon ionization of aniline in a molecular beam and the bulk gas phase. <i>Chemical Physics Letters</i> , 1979, 67, 351-355.	2.6	61
10	Laser optogalvanic photodetachment spectroscopy: A new technique for studying photodetachment thresholds with application to I ⁺ . <i>Journal of Chemical Physics</i> , 1983, 78, 646-651.	3.0	59
11	Voltage polarity effects in Ge ₂ Sb ₂ Te ₅ -based phase change memory devices. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	56
12	Enabling complex nanoscale pattern customization using directed self-assembly. <i>Nature Communications</i> , 2014, 5, 5805.	12.8	51
13	MIEC (mixed-ionic-electronic-conduction)-based access devices for non-volatile crossbar memory arrays. <i>Semiconductor Science and Technology</i> , 2014, 29, 104005.	2.0	45
14	Energy disposal in the reactions O(1D)+NH ₃ →OH+NH ₂ and O(1D)+ND ₃ →OD+ND ₂ . <i>Journal of Chemical Physics</i> , 1981, 75, 2742-2748.	3.0	44
15	Crossed beam studies of chemiluminescent, metastable atomic reactions. Excitation functions and rotational polarization in the reactions of Xe(3 P 2,0) with Br ₂ and CCl ₄ . <i>Faraday Discussions of the Chemical Society</i> , 1979, 67, 329.	2.2	40
16	Phase change nanodot arrays fabricated using a self-assembly diblock copolymer approach. <i>Applied Physics Letters</i> , 2007, 91, 013104.	3.3	35
17	Pattern Placement Accuracy in Block Copolymer Directed Self-Assembly Based on Chemical Epitaxy. <i>ACS Nano</i> , 2013, 7, 276-285.	14.6	34
18	Resonance enhanced laser ionisation mass spectrometry of four aromatic molecules. <i>Chemical Physics</i> , 1981, 56, 53-61.	1.9	33

#	ARTICLE	IF	CITATIONS
19	Patterning sub-10 nm line patterns from a block copolymer hybrid. <i>Nanotechnology</i> , 2008, 19, 455304.	2.6	32
20	Directed Self-Assembly of Lamellar Microdomains of Block Copolymers Using Topographic Guiding Patterns. <i>Macromolecules</i> , 2009, 42, 5895-5899.	4.8	22
21	Topographically directed self-assembly of goldnanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 16863.	6.7	15
22	Energy disposal in the reaction $O(1D_2)+NH_3 \rightarrow OH(v,N)+NH_2$: Observation of a bimodal OH rotational distribution. <i>Journal of Chemical Physics</i> , 1980, 72, 5280-5282.	3.0	14
23	Origin of InI emission in laser studies of the crossed beam reaction $In+I_2$. <i>Chemical Physics</i> , 1981, 58, 371-383.	1.9	14
24	The inner workings of phase change memory: Lessons from prototype PCM devices. , 2010, , .		12
25	Directed Self-assembly on Sparse Chemical Patterns for Lithographic Applications. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2009, 22, 219-222.	0.3	11
26	Deterministically isolated gratings through the directed self-assembly of block copolymers. , 2013, , .		9
27	Electron-Beam Lithographic Studies of the Scaling of Phase-Change Memory. <i>MRS Bulletin</i> , 2008, 33, 847-853.	3.5	8
28	Bending of Lamellar Microdomains of Block Copolymers on Nonselective Surfaces. <i>Macromolecules</i> , 2010, 43, 1665-1670.	4.8	7
29	Spatial Control of the Self-assembled Block Copolymer Domain Orientation and Alignment on Photopatterned Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23399-23409.	8.0	7
30	Programmable Nanoparticle Ensembles via High-Throughput Directed Self-Assembly. <i>Langmuir</i> , 2013, 29, 3567-3574.	3.5	6
31	Measurement of placement error between self-assembled polymer patterns and guiding chemical prepatterns. , 2012, , .		5
32	Directed self-assembly of topcoat-free, integration-friendly high- χ block copolymers. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4