

# Peter J Ludovice

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

145  
citations

1307594

7  
h-index

1199594

12  
g-index

19  
all docs

19  
docs citations

19  
times ranked

169  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Block copolymer directed self-assembly defect modes induced by localized errors in chemoepitaxial guiding underlayers: A molecular simulation study. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 032604. | 1.2 | 2         |
| 2  | Understanding and mitigating bridge defects in block copolymer directed self-assembly through computational materials design and optimization. , 2020, , .   |     | 2         |
| 3  | Synthesis and self-assembly of high- $\Gamma$ poly(4-tertbutylstyrene)-block-poly(2-hydroxyethylmethacrylate). Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, .   | 1.2 | 4         |
| 4  | Protracted Colored Noise Dynamics Applied to Linear Polymer Systems. Macromolecular Theory and Simulations, 2018, 27, 1700062.   | 1.4 | 4         |
| 5  | Phenol-functionalized polymerization control additives for negative tone epoxide crosslinking molecular resists. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, .   | 1.2 | 0         |
| 6  | Humour Applied to STEM Education. Systems Research and Behavioral Science, 2017, 34, 216-226.  | 1.6 | 8         |
| 7  | Block copolymer directed self-assembly using chemoepitaxial guiding underlayers with topography. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2017, 35, 06G101.   | 1.2 | 2         |
| 8  | Effect of chemoepitaxial guiding underlayer design on the pattern quality and shape of aligned lamellae for fabrication of line-space patterns. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2017, 16, 1.                                       | 0.9 | 1         |
| 9  | Free energy of defects in chemoepitaxial block copolymer directed self-assembly: effect of pattern density and defect position. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2017, 16, 1.   | 0.9 | 2         |
| 10 | Calculations of the free energy of dislocation defects in lamellae forming diblock copolymers using thermodynamic integration. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2016, 15, 023505.   | 0.9 | 8         |
| 11 | Coarse-grained molecular dynamics modeling of the kinetics of lamellar block copolymer defect annealing. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2016, 15, 013508.   | 0.9 | 10        |
| 12 | Effect of chemoepitaxial guiding underlayer design on the pattern quality and shape of aligned lamellae for fabrication of line-space patterns. Proceedings of SPIE, 2015, , .   | 0.8 | 2         |
| 13 | Detailed molecular dynamics studies of block copolymer directed self-assembly: Effect of guiding layer properties. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 06F302.                                   | 1.2 | 15        |
| 14 | Coarse grained molecular dynamics model of block copolymer directed self-assembly. Proceedings of SPIE, 2013, , .  | 0.8 | 15        |
| 15 | The bigger, the better: Ring-size effects of macrocyclic oligomeric Co(III)-salen catalysts. Chemical Science, 2011, 2, 429-438.   | 7.4 | 36        |
| 16 | RIS Model of the Helix-Kink Conformation of Erythro Diisotactic Polynobornene. Macromolecular Theory and Simulations, 2010, 19, 421-431.   | 1.4 | 5         |
| 17 | Structural and free-volume analysis for alkyl-substituted palladium-catalyzed poly(norbornene): A combined experimental and Monte Carlo investigation. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 215-233.                         | 2.1 | 25        |
| 18 | Small Molecule Diffusion in Polymer Ultra-Thin Films. Materials Research Society Symposia Proceedings, 2005, 899, 1.   | 0.1 | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Effect of Thin Film Confinement on the Transport Properties of Ultra-Thin Polymer Films. Materials Research Society Symposia Proceedings, 2003, 790, 1. | 0.1 | 3         |