

# Guillermo Terrones

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

798  
citations

566801

15  
h-index

676716

22  
g-index

31  
all docs

31  
docs citations

31  
times ranked

526  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Effects of Optical Attenuation and Consumption of a Photobleaching Initiator on Local Initiation Rates in Photopolymerizations. <i>Macromolecules</i> , 2001, 34, 3195-3204.                              | 2.2 | 120       |
| 2  | Ejecta source model based on the nonlinear Richtmyer-Meshkov instability. <i>Journal of Applied Physics</i> , 2013, 113, .  | 1.1 | 105       |
| 3  | The onset of convective instability in a triply diffusive fluid layer. <i>Journal of Fluid Mechanics</i> , 1989, 202, 443-465.  | 1.4 | 91        |
| 4  | Fastest growing linear Rayleigh-Taylor modes at solid-fluid and solid-solid interfaces. <i>Physical Review E</i> , 2005, 71, 036306.  | 0.8 | 55        |
| 5  | Structure, Chirality, and Formation of Giant Icosahedral Fullerenes and Spherical Graphitic Onions. <i>Structural Chemistry</i> , 2002, 13, 373-384.  | 1.0 | 53        |
| 6  | Stability and Bifurcation of Spatially Coherent Solutions of the Damped-Driven NLS Equation. <i>SIAM Journal on Applied Mathematics</i> , 1990, 50, 791-818.  | 0.8 | 49        |
| 7  | Effects of Kinetics and Optical Attenuation on the Completeness, Uniformity, and Dynamics of Monomer Conversion in Free-Radical Photopolymerizations. <i>Macromolecules</i> , 2001, 34, 8894-8906.        | 2.2 | 41        |
| 8  | Cross-diffusion effects on the stability criteria in a triply diffusive system. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 2172-2182.  | 1.6 | 37        |
| 9  | The onset of convection in a multicomponent fluid layer. <i>Physics of Fluids A, Fluid Dynamics</i> , 1989, 1, 845-853.   | 1.6 | 34        |
| 10 | Diffusion-Induced Nonuniformity of Photoinitiation in a Photobleaching Medium. <i>Macromolecules</i> , 2004, 37, 1565-1575.   | 2.2 | 29        |
| 11 | Rayleigh-Taylor instability at spherical interfaces between viscous fluids: Fluid/vacuum interface. <i>Physics of Fluids</i> , 2015, 27, .  | 1.6 | 24        |
| 12 | The study of high-speed surface dynamics using a pulsed proton beam. <i>AIP Conference Proceedings</i> , 2012, , .  | 0.3 | 21        |
| 13 | Rayleigh-Taylor instability at spherical interfaces between viscous fluids: The fluid/fluid interface. <i>Physics of Fluids</i> , 2020, 32, 094105.   | 1.6 | 21        |
| 14 | Convective stability of gravity-modulated doubly cross-diffusive fluid layers. <i>Journal of Fluid Mechanics</i> , 1993, 255, 301.  | 1.4 | 20        |
| 15 | Nonuniformity of Chain-Length Distributions in Photopolymerized Layers. <i>Macromolecules</i> , 2003, 36, 6346-6358.  | 2.2 | 18        |
| 16 | Application of the Carreau Model to Tape-Casting Fluid Mechanics. <i>Journal of the American Ceramic Society</i> , 1997, 80, 3151-3156.   | 1.9 | 14        |
| 17 | Elastic stability and the onset of plastic flow in accelerated solid plates. <i>Journal of Applied Physics</i> , 2007, 102, 034908.   | 1.1 | 13        |
| 18 | Absorbance, light intensity, mass transfer, and sampling time effects in a proposed mechanism for the photolysis of phenyl azide. <i>Journal of the American Chemical Society</i> , 1991, 113, 2132-2140. | 6.6 | 11        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | The Effect of Cook-Off on the Bulk Permeability of a Plastic Bonded Explosive. Propellants, Explosives, Pyrotechnics, 2006, 31, 333-342.        | 1.0 | 8         |
| 20 | Quantification of ejecta from shock loaded metal surfaces. AIP Conference Proceedings, 2012, , .  | 0.3 | 7         |
| 21 | Burn front and reflected shock wave visualization in an inertially confined detonation of high explosive. AIP Conference Proceedings, 2012, , . | 0.3 | 1         |
| 22 | Finite boundary effects on the spherical Rayleighâ€“Taylor instability between viscous fluids. AIP Advances, 2022, 12, 045009.                  | 0.6 | 1         |
| 23 | Effects of g-jitter and cross-diffusion on the onset of convection in doubly diffusive systems. , 1992, , .                                     |     | 0         |