

# James Stephens

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33  
papers

325  
citations

10  
h-index

16  
g-index

35  
ext. papers

369  
ext. citations

3.3  
avg, IF

3.24  
L-index

#	Paper	IF	Citations
33	Thermoelastic damping in a micro-beam resonator using modified couple stress theory. <i>Acta Mechanica</i> , <b>2012</b> , 223, 1137-1152	2.1	77
32	Non-contact microsphere--surface adhesion measurement via acoustic base excitations. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 288, 432-43	9.3	41
31	Application of piezoelectric actuation to regularize the chaotic response of an electrostatically actuated micro-beam. <i>Nonlinear Dynamics</i> , <b>2013</b> , 73, 853-867	5	28
30	Real-time Acoustic Elastic Property Monitoring of Compacts During Compaction. <i>Journal of Pharmaceutical Innovation</i> , <b>2008</b> , 3, 134-140	1.8	17
29	Non-Contact Rolling Bond Stiffness Characterization of Polyvinylpyrrolidone (PVP) Particles. <i>Journal of Adhesion Science and Technology</i> , <b>2011</b> , 25, 407-434	2	16
28	Pressure amplification of laser induced plasma shockwaves with shock tubes for nanoparticle removal. <i>Journal of Adhesion Science and Technology</i> , <b>2007</b> , 21, 67-80	2	16
27	Removal of Nanoparticles With Laser Induced Plasma. <i>Journal of Adhesion Science and Technology</i> , <b>2008</b> , 22, 651-674	2	13
26	Phononic Crystal Artifacts for Real-Time In Situ Quality Monitoring in Additive Manufacturing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2017</b> , 139,	3.3	11
25	Nonlinear dynamics of adhesive micro-spherical particles on vibrating substrates. <i>Journal of Adhesion Science and Technology</i> , <b>2013</b> , 27, 1712-1726	2	10
24	Adhesion Characterization Based on Rolling Resistance of Individual Microspheres on Substrates: Review of Recent Experimental Progress. <i>Journal of Adhesion Science and Technology</i> , <b>2008</b> , 22, 507-528 <sup>2</sup>		10
23	Nanoparticle Removal Using Laser-Induced Plasma Shock Waves. <i>Particulate Science and Technology</i> , <b>2007</b> , 25, 91-106	2	10
22	Correlation of solid dosage porosity and tensile strength with acoustically extracted mechanical properties. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 542, 153-163	6.5	7
21	In-Process Thread Orientation Monitoring in Additive Manufacturing. <i>3D Printing and Additive Manufacturing</i> , <b>2019</b> , 6, 21-30	4	6
20	Charge contribution to patch-charged microparticle adhesion. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 211905 <sup>3,4</sup>		6
19	Propagation and Localization of Longitudinal Thermoelastic Waves in Layered Structures. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2000</b> , 122, 263-271	1.6	6
18	Critical rolling angle of microparticles. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 111602	3.4	6
17	Early detection of capping risk in pharmaceutical compacts. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 553, 338-348	6.5	6

16	Effects of Nanoparticle Coating on the Adhesion of Emulsion Aggregation Toner Particles. <i>Journal of Adhesion Science and Technology</i> , <b>2010</b> , 24, 371-387	2	5
15	Transient Thermoelastic Response of Nanofilms Under Radiation Heating From Pulsed Laser-Induced Plasma. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2008</b> , 21, 116-122	2.6	5
14	Selective removal of 100-nm particles from silicon wafers using laser-induced plasma shockwaves. <i>Journal of Adhesion Science and Technology</i> , <b>2007</b> , 21, 331-337	2	5
13	Spherical Nanoparticle-Substrate Adhesion Interaction Simulations Utilizing Molecular Dynamics. <i>Journal of Adhesion Science and Technology</i> , <b>2009</b> , 23, 1723-1738	2	4
12	Mechanical properties of P-selectin PSGL-1 bonds. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 173, 529-538	3.8	4
11	Doubling of rocking resonance frequency of an adhesive microparticle vibrating on a surface. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 101602	3.4	3
10	Effects of compaction pressure, speed and punch head profile on the ultrasonically-extracted physical properties of pharmaceutical compacts. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 575, 118993	6.5	3
9	Adhesion distribution on the surface of a single microparticle. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 121602	3.4	2
8	Laser-Induced Plasma Exposure on Extreme Ultraviolet Lithography Masks: Damage Analysis. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2012</b> , 25, 630-637	2.6	2
7	Onset of Material Alterations Due to Laser-Induced Plasma Exposure in Nanofilms Deposited on Photomasks. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2009</b> , 22, 579-586	2.6	2
6	Submerged laser-induced plasma amplification of shockwaves using shock tubes for nanoparticle removal. <i>Journal of Adhesion Science and Technology</i> , <b>2007</b> , 21, 1425-1437	2	2
5	Adhesion and stiffness of biotin-superavidin bonds. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 171, 308-318	6	1
4	Characterization of Single Particle Adhesion: A Review of Recent Progress	157-200	1
3	Single particle adhesion variability in additive manufacturing powders	<b>2021</b> , 97, 19-37	0
2	Multimode Air-Coupled Excitation of Micromechanical Structures. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2008</b> , 57, 2457-2461	5.2	
1	Acoustic Monitoring of Nonuniformly Eroded PVD Targets. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2006</b> , 19, 425-431	2.6	