

James Stephens

List of Publications by Year in Descending Order

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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	Single particle adhesion variability in additive manufacturing powders 2021 , 97, 19-37		0
32	Effects of compaction pressure, speed and punch head profile on the ultrasonically-extracted physical properties of pharmaceutical compacts. <i>International Journal of Pharmaceutics</i> , 2020 , 575, 118993	6.5	3
31	In-Process Thread Orientation Monitoring in Additive Manufacturing. <i>3D Printing and Additive Manufacturing</i> , 2019 , 6, 21-30	4	6
30	Mechanical properties of P-selectin PSGL-1 bonds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 173, 529-538	5.38	4
29	Correlation of solid dosage porosity and tensile strength with acoustically extracted mechanical properties. <i>International Journal of Pharmaceutics</i> , 2018 , 542, 153-163	6.5	7
28	Adhesion and stiffness of biotin-superavidin bonds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 171, 308-318	6	1
27	Early detection of capping risk in pharmaceutical compacts. <i>International Journal of Pharmaceutics</i> , 2018 , 553, 338-348	6.5	6
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> , 2017 , 139,	3.3	11
25	Adhesion distribution on the surface of a single microparticle. <i>Applied Physics Letters</i> , 2016 , 109, 121602	3.4	2
24	Critical rolling angle of microparticles. <i>Applied Physics Letters</i> , 2016 , 108, 111602	3.4	6
23	Charge contribution to patch-charged microparticle adhesion. <i>Applied Physics Letters</i> , 2014 , 105, 211905	3.4	6
22	Nonlinear dynamics of adhesive micro-spherical particles on vibrating substrates. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 1712-1726	2	10
21	Application of piezoelectric actuation to regularize the chaotic response of an electrostatically actuated micro-beam. <i>Nonlinear Dynamics</i> , 2013 , 73, 853-867	5	28
20	Thermoelastic damping in a micro-beam resonator using modified couple stress theory. <i>Acta Mechanica</i> , 2012 , 223, 1137-1152	2.1	77
19	Doubling of rocking resonance frequency of an adhesive microparticle vibrating on a surface. <i>Applied Physics Letters</i> , 2012 , 101, 101602	3.4	3
18	Laser-Induced Plasma Exposure on Extreme Ultraviolet Lithography Masks: Damage Analysis. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2012 , 25, 630-637	2.6	2
17	Non-Contact Rolling Bond Stiffness Characterization of Polyvinylpyrrolidone (PVP) Particles. <i>Journal of Adhesion Science and Technology</i> , 2011 , 25, 407-434	2	16

16	Effects of Nanoparticle Coating on the Adhesion of Emulsion Aggregation Toner Particles. <i>Journal of Adhesion Science and Technology</i> , 2010 , 24, 371-387	2	5
15	Spherical Nanoparticle-Substrate Adhesion Interaction Simulations Utilizing Molecular Dynamics. <i>Journal of Adhesion Science and Technology</i> , 2009 , 23, 1723-1738	2	4
14	Onset of Material Alterations Due to Laser-Induced Plasma Exposure in Nanofilms Deposited on Photomasks. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2009 , 22, 579-586	2.6	2
13	Multimode Air-Coupled Excitation of Micromechanical Structures. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2008 , 57, 2457-2461	5.2	
12	Transient Thermoelastic Response of Nanofilms Under Radiation Heating From Pulsed Laser-Induced Plasma. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2008 , 21, 116-122	2.6	5
11	Removal of Nanoparticles With Laser Induced Plasma. <i>Journal of Adhesion Science and Technology</i> , 2008 , 22, 651-674	2	13
10	Adhesion Characterization Based on Rolling Resistance of Individual Microspheres on Substrates: Review of Recent Experimental Progress. <i>Journal of Adhesion Science and Technology</i> , 2008 , 22, 507-528	2	10
9	Real-time Acoustic Elastic Property Monitoring of Compacts During Compaction. <i>Journal of Pharmaceutical Innovation</i> , 2008 , 3, 134-140	1.8	17
8	Submerged laser-induced plasma amplification of shockwaves using shock tubes for nanoparticle removal. <i>Journal of Adhesion Science and Technology</i> , 2007 , 21, 1425-1437	2	2
7	Selective removal of 100-nm particles from silicon wafers using laser-induced plasma shockwaves. <i>Journal of Adhesion Science and Technology</i> , 2007 , 21, 331-337	2	5
6	Nanoparticle Removal Using Laser-Induced Plasma Shock Waves. <i>Particulate Science and Technology</i> , 2007 , 25, 91-106	2	10
5	Pressure amplification of laser induced plasma shockwaves with shock tubes for nanoparticle removal. <i>Journal of Adhesion Science and Technology</i> , 2007 , 21, 67-80	2	16
4	Acoustic Monitoring of Nonuniformly Eroded PVD Targets. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2006 , 19, 425-431	2.6	
3	Non-contact microsphere-surface adhesion measurement via acoustic base excitations. <i>Journal of Colloid and Interface Science</i> , 2005 , 288, 432-43	9.3	41
2	Propagation and Localization of Longitudinal Thermoelastic Waves in Layered Structures. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2000 , 122, 263-271	1.6	6
1	Characterization of Single Particle Adhesion: A Review of Recent Progress	157-200	1