

James Stephens

List of Publications by Year in descending order

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33
papers

415
citations

840776

11
h-index

752698

20
g-index

35
all docs

35
docs citations

35
times ranked

321
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoelastic damping in a micro-beam resonator using modified couple stress theory. <i>Acta Mechanica</i> , 2012, 223, 1137-1152.	2.1	95
2	Non-contact microsphere surface adhesion measurement via acoustic base excitations. <i>Journal of Colloid and Interface Science</i> , 2005, 288, 432-443.	9.4	44
3	Application of piezoelectric actuation to regularize the chaotic response of an electrostatically actuated micro-beam. <i>Nonlinear Dynamics</i> , 2013, 73, 853-867.	5.2	31
4	Real-time Acoustic Elastic Property Monitoring of Compacts During Compaction. <i>Journal of Pharmaceutical Innovation</i> , 2008, 3, 134-140.	2.4	23
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.	2.6	19
6	Removal of Nanoparticles With Laser Induced Plasma. <i>Journal of Adhesion Science and Technology</i> , 2008, 22, 651-674.	2.6	19
7	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, .	2.2	18
8	Non-Contact Rolling Bond Stiffness Characterization of Polyvinylpyrrolidone (PVP) Particles. <i>Journal of Adhesion Science and Technology</i> , 2011, 25, 407-434.	2.6	16
9	Correlation of solid dosage porosity and tensile strength with acoustically extracted mechanical properties. <i>International Journal of Pharmaceutics</i> , 2018, 542, 153-163.	5.2	15
10	Early detection of capping risk in pharmaceutical compacts. <i>International Journal of Pharmaceutics</i> , 2018, 553, 338-348.	5.2	14
11	Nanoparticle Removal Using Laser-Induced Plasma Shock Waves. <i>Particulate Science and Technology</i> , 2007, 25, 91-106.	2.1	11
12	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.	2.6	11
13	In-Process Thread Orientation Monitoring in Additive Manufacturing. <i>3D Printing and Additive Manufacturing</i> , 2019, 6, 21-30.	2.9	11
14	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	10
15	Nonlinear dynamics of adhesive micro-spherical particles on vibrating substrates. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 1712-1726.	2.6	10
16	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.	5.2	9
17	Selective removal of 10–40-nm particles from silicon wafers using laser-induced plasma shockwaves. <i>Journal of Adhesion Science and Technology</i> , 2007, 21, 331-337.	2.6	7
18	Charge contribution to patch-charged microparticle adhesion. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	7

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19	Critical rolling angle of microparticles. Applied Physics Letters, 2016, 108, .	3.3	7
20	Transient Thermoelastic Response of Nanofilms Under Radiation Heating From Pulsed Laser-Induced Plasma. IEEE Transactions on Semiconductor Manufacturing, 2008, 21, 116-122.	1.7	6
21	Effects of Nanoparticle Coating on the Adhesion of Emulsion Aggregation Toner Particles. Journal of Adhesion Science and Technology, 2010, 24, 371-387.	2.6	5
22	Mechanical properties of P-selectin PSGL-1 bonds. Colloids and Surfaces B: Biointerfaces, 2019, 173, 529-538.	5.0	5
23	Spherical Nanoparticleâ€“Substrate Adhesion Interaction Simulations Utilizing Molecular Dynamics. Journal of Adhesion Science and Technology, 2009, 23, 1723-1738.	2.6	4
24	Submerged laser-induced plasma amplification of shockwaves using shock tubes for nanoparticle removal. Journal of Adhesion Science and Technology, 2007, 21, 1425-1437.	2.6	3
25	Onset of Material Alterations Due to Laser-Induced Plasma Exposure in Nanofilms Deposited on Photomasks. IEEE Transactions on Semiconductor Manufacturing, 2009, 22, 579-586.	1.7	3
26	Doubling of rocking resonance frequency of an adhesive microparticle vibrating on a surface. Applied Physics Letters, 2012, 101, .	3.3	3
27	Laser-Induced Plasma Exposure on Extreme Ultraviolet Lithography Masks: Damage Analysis. IEEE Transactions on Semiconductor Manufacturing, 2012, 25, 630-637.	1.7	3
28	Adhesion distribution on the surface of a single microparticle. Applied Physics Letters, 2016, 109, 121602.	3.3	2
29	Multimode Air-Coupled Excitation of Micromechanical Structures. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2457-2461.	4.7	1
30	Adhesion and stiffness of biotin-superaavidin bonds. Colloids and Surfaces B: Biointerfaces, 2018, 171, 308-318.	5.0	1
31	Single particle adhesion variability in additive manufacturing powders. Journal of Adhesion, 2021, 97, 19-37.	3.0	1
32	Acoustic Monitoring of Nonuniformly Eroded PVD Targets. IEEE Transactions on Semiconductor Manufacturing, 2006, 19, 425-431.	1.7	0
33	Experimental characterization of adhesion between micro-size polymer particles and silicon substrates. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , .	0.0	0