Cetin Cetinkaya

List of Publications by Year
in descending order

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70	1,014	448610 19	563245 28
papers	citations	h-index	g-index

72	72	72	567
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrasonic characterization of complete anisotropic elasticity coefficients of compressed oral solid dosage forms. International Journal of Pharmaceutics, 2022, 623, 121922.	2.6	8
2	Effect of shape on the physical properties of pharmaceutical tablets. International Journal of Pharmaceutics, 2022, 624, 121993.	2.6	7
3	Single particle adhesion variability in additive manufacturing powders. Journal of Adhesion, 2021, 97, 19-37.	1.8	1
4	Effects of compaction pressure, speed and punch head profile on the ultrasonically-extracted physical properties of pharmaceutical compacts. International Journal of Pharmaceutics, 2020, 575, 118993.	2.6	9
5	Mechanical properties of P-selectin PSGL-1 bonds. Colloids and Surfaces B: Biointerfaces, 2019, 173, 529-538.	2.5	5
6	Correlation of solid dosage porosity and tensile strength with acoustically extracted mechanical properties. International Journal of Pharmaceutics, 2018, 542, 153-163.	2.6	15
7	Early detection of capping risk in pharmaceutical compacts. International Journal of Pharmaceutics, 2018, 553, 338-348.	2.6	14
8	Adhesion and stiffness of biotin-superavidin bonds. Colloids and Surfaces B: Biointerfaces, 2018, 171, 308-318.	2.5	1
9	Pre-rolling leaning of microparticles. Powder Technology, 2017, 311, 88-100.	2.1	2
10	Micromechanical and surface adhesive properties of single saccharomyces cerevisiae cells. Journal Physics D: Applied Physics, 2017, 50, 375401.	1.3	5
11	Critical rolling angle of microparticles. Applied Physics Letters, 2016, 108, .	1.5	7
12	Adhesion distribution on the surface of a single microparticle. Applied Physics Letters, 2016, 109, 121602.	1.5	2
13	Effect of surface temperature on adhesion of nanoparticle-coated microparticles. Powder Technology, 2016, 298, 57-64.	2.1	0
14	Super Sensitive Mass Detection in Nonlinear Regime. Sensing and Imaging, 2015, 16, 1.	1.0	0
15	Effect of surface temperature on microparticle-surface adhesion. Applied Physics Letters, 2015, 107, .	1.5	3
16	Predicting electrostatic charge on single microparticles. Powder Technology, 2015, 286, 684-696.	2.1	4
17	Charge contribution to patch-charged microparticle adhesion. Applied Physics Letters, 2014, 105, .	1.5	7
18	Tuning the primary resonances of a micro resonator, using piezoelectric actuation. Nonlinear Dynamics, 2014, 76, 839-852.	2.7	50

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19	Ultrasonic approach for viscoelastic and microstructure characterization of granular pharmaceutical tablets. International Journal of Pharmaceutics, 2013, 454, 333-343.	2.6	11
20	Ultrasonic real-time in-die monitoring of the tablet compaction processâ€"A proof of concept study. International Journal of Pharmaceutics, 2013, 442, 20-26.	2.6	12
21	Adhesion energy characterization of monolayer graphene by vibrational spectroscopy. Journal of Applied Physics, 2013, 114, 143502.	1.1	8
22	Nonlinear dynamics of adhesive micro-spherical particles on vibrating substrates. Journal of Adhesion Science and Technology, 2013, 27, 1712-1726.	1.4	10
23	Application of piezoelectric actuation to regularize the chaotic response of an electrostatically actuated micro-beam. Nonlinear Dynamics, 2013, 73, 853-867.	2.7	31
24	Doubling of rocking resonance frequency of an adhesive microparticle vibrating on a surface. Applied Physics Letters, 2012, 101, .	1.5	3
25	Laser-Induced Plasma Exposure on Extreme Ultraviolet Lithography Masks: Damage Analysis. IEEE Transactions on Semiconductor Manufacturing, 2012, 25, 630-637.	1.4	3
26	Acoustic assessment of mean grain size in pharmaceutical compacts. International Journal of Pharmaceutics, 2011, 419, 137-146.	2.6	17
27	Real-time in-die compaction monitoring of dry-coated tablets. International Journal of Pharmaceutics, 2011, 414, 171-178.	2.6	16
28	Adhesion properties of nanoparticle-coated emulsion aggregation toner. Powder Technology, 2011, 208, 582-589.	2.1	17
29	Non-Contact Rolling Bond Stiffness Characterization of Polyvinylpyrrolidone (PVP) Particles. Journal of Adhesion Science and Technology, 2011, 25, 407-434.	1.4	16
30	Effects of Nanoparticle Coverage on the Adhesion Properties of Emulsion Aggregation Toner Particles. Journal of Imaging Science and Technology, 2010, 54, 020501.	0.3	2
31	Mechanical Property Characterization of Bilayered Tablets using Nondestructive Air-Coupled Acoustics. AAPS PharmSciTech, 2010, 11, 90-102.	1.5	43
32	Mechanical and geometric property characterization of dry-coated tablets with contact ultrasonic techniques. International Journal of Pharmaceutics, 2010, 392, 148-155.	2.6	21
33	Effects of Nanoparticle Coating on the Adhesion of Emulsion Aggregation Toner Particles. Journal of Adhesion Science and Technology, 2010, 24, 371-387.	1.4	5
34	Ultrasonic determination of Young's moduli of the coat and core materials of a drug tablet. International Journal of Pharmaceutics, 2009, 370, 17-25.	2.6	32
35	Spherical Nanoparticleâ€"Substrate Adhesion Interaction Simulations Utilizing Molecular Dynamics. Journal of Adhesion Science and Technology, 2009, 23, 1723-1738.	1.4	4
36	Onset of Material Alterations Due to Laser-Induced Plasma Exposure in Nanofilms Deposited on Photomasks. IEEE Transactions on Semiconductor Manufacturing, 2009, 22, 579-586.	1.4	3

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37	Real-time Acoustic Elastic Property Monitoring of Compacts During Compaction. Journal of Pharmaceutical Innovation, 2008, 3, 134-140.	1.1	23
38	Acoustic Testing and Characterization Techniques for Pharmaceutical Solid Dosage Forms. Journal of Pharmaceutical Innovation, 2008, 3, 216-226.	1.1	15
39	Drug tablet thickness estimations using air-coupled acoustics. International Journal of Pharmaceutics, 2008, 351, 165-173.	2.6	29
40	Air-coupled non-contact mechanical property determination of drug tablets. International Journal of Pharmaceutics, 2008, 359, 25-34.	2.6	26
41	Non-destructive acoustic defect detection in drug tablets. International Journal of Pharmaceutics, 2008, 360, 65-76.	2.6	31
42	Multimode Air-Coupled Excitation of Micromechanical Structures. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2457-2461.	2.4	1
43	Transient Thermoelastic Response of Nanofilms Under Radiation Heating From Pulsed Laser-Induced Plasma. IEEE Transactions on Semiconductor Manufacturing, 2008, 21, 116-122.	1.4	6
44	Removal of Nanoparticles With Laser Induced Plasma. Journal of Adhesion Science and Technology, 2008, 22, 651-674.	1.4	19
45	Adhesion Characterization Based on Rolling Resistance of Individual Microspheres on Substrates: Review of Recent Experimental Progress. Journal of Adhesion Science and Technology, 2008, 22, 507-528.	1.4	11
46	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
47	Pressure amplification of laser induced plasma shockwaves with shock tubes for nanoparticle removal. Journal of Adhesion Science and Technology, 2007, 21, 67-80.	1.4	19
48	Air-coupled excitation of rocking motion of individual microspheres on surfaces. Applied Physics Letters, 2007, 90, 171906.	1.5	10
49	Thermal loading of laser induced plasma shockwaves on thin films in nanoparticle removal. Journal of Applied Physics, 2007, 101, 113106.	1.1	14
50	Submerged laser-induced plasma amplification of shockwaves using shock tubes for nanoparticle removal. Journal of Adhesion Science and Technology, 2007, 21, 1425-1437.	1.4	3
51	Selective removal of 10â€“40-nm particles from silicon wafers using laser-induced plasma shockwaves. Journal of Adhesion Science and Technology, 2007, 21, 331-337.	1.4	7
52	Nanoparticle Removal Using Laser-Induced Plasma Shock Waves. Particulate Science and Technology, 2007, 25, 91-106.	1.1	11
53	Underwater pressure amplification of laser-induced plasma shock waves for particle removal applications. Applied Physics Letters, 2007, 91, .	1.5	13
54	Noncontact Photo-Acoustic Defect Detection in Drug Tablets. Journal of Pharmaceutical Sciences, 2007, 96, 2125-2133.	1.6	40

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55	Molecular-level mechanisms of nanoparticle detachment in laser-induced plasma shock waves. Applied Physics Letters, 2006, 88, 173109.	1.5	7
56	Nanoparticle removal from EUV photomasks using laser induced plasma shockwaves. , 2006, , .		7
57	Nanoparticle Removal Using Laser Induced Plasma Shockwaves. , 2006, , 493.		0
58	Particle removal with liquid-film-enhanced laser-induced plasma. Journal of Adhesion Science and Technology, 2006, 20, 233-243.	1.4	11
59	Non-contact microsphereâ€"surface adhesion measurement via acoustic base excitations. Journal of Colloid and Interface Science, 2005, 288, 432-443.	5.0	44
60	Rotational motion of microsphere packs on acoustically excited surfaces. Applied Physics Letters, 2005, 86, 194103.	1.5	21
61	Rolling resistance moment of microspheres on surfaces. Philosophical Magazine, 2005, 85, 1347-1357.	0.7	41
62	Non-contact removal of 60-nm latex particles from silicon wafers with laser-induced plasma. Journal of Adhesion Science and Technology, 2004, 18, 795-806.	1.4	28
63	Post-chemical mechanical polishing cleaning of silicon wafers with laser-induced plasma. Journal of Adhesion Science and Technology, 2004, 18, 779-794.	1.4	14
64	Non-contact nanoparticle removal with laser induced plasma pulses. Nanotechnology, 2004, 15, 435-440.	1.3	38
65	Potential thermo-mechanical substrate damage in nanoparticle removal with pulsed lasers. Journal of Adhesion Science and Technology, 2003, 17, 91-113.	1.4	12
66	Efficiency studies of particle removal with pulsed-laser induced plasma. Journal of Adhesion Science and Technology, 2003, 17, 763-776.	1.4	27
67	Nanoparticle removal from trenches and pinholes with pulsed-laser induced plasma and shock waves. Journal of Adhesion Science and Technology, 2003, 17, 129-147.	1.4	24
68	Nanoparticle removal from substrates with pulsed-laser induced plasma and shock waves. Journal of Adhesion Science and Technology, 2002, 16, 1201-1214.	1.4	47
69	An Efficiency Study of Transient Wave Generation in a Thermoelastic Layer with a Pulsed Laser. Journal of Nondestructive Evaluation, 2001, 20, 49-59.	1.1	4
70	LASER-BASED TRANSIENT SURFACE ACCELERATION OF THERMOELASTIC LAYERS. Journal of Sound and Vibration, 2000, 231, 195-217.	2.1	14