

Joseph A Turner

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1476919/publications.pdf>

Version: 2024-02-01

61
papers

1,111
citations

471509

17
h-index

434195

31
g-index

66
all docs

66
docs citations

66
times ranked

784
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated analysis of chain orientation induced anisotropy in nanoimprinted PVDF based copolymers. <i>Polymer</i> , 2022, 239, 124435.	3.8	0
2	Cell twisting during desiccation reveals axial asymmetry in wall organization. <i>Biophysical Journal</i> , 2022, 121, 932-942.	0.5	4
3	Protocol for mapping the variability in cell wall mechanical bending behavior in living leaf pavement cells. <i>Plant Physiology</i> , 2022, 188, 1435-1449.	4.8	7
4	Ultrasonic mapping of hybrid additively manufactured 420 stainless steel. <i>Ultrasonics</i> , 2021, 110, 106269.	3.9	19
5	Transverse-to-transverse diffuse ultrasonic double scattering. <i>Ultrasonics</i> , 2021, 111, 106301.	3.9	6
6	Grain size evaluation with time-frequency ultrasonic backscatter. <i>NDT and E International</i> , 2021, 117, 102369.	3.7	9
7	PECTATE LYASE LIKE12 patterns the guard cell wall to coordinate turgor pressure and wall mechanics for proper stomatal function in Arabidopsis. <i>Plant Cell</i> , 2021, 33, 3134-3150.	6.6	34
8	Real-time conversion of tissue-scale mechanical forces into an interdigitated growth pattern. <i>Nature Plants</i> , 2021, 7, 826-841.	9.3	30
9	Ultrasound <i>in situ</i> characterization of hybrid additively manufactured Ti6Al4V. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 4452-4463.	1.1	8
10	Propagation of leaky Rayleigh waves along a curved fluid-solids interface. <i>Journal of the Acoustical Society of America</i> , 2021, 150, 4395-4405.	1.1	0
11	Influence of microstructural grain-size distribution on ultrasonic scattering. <i>Ultrasonics</i> , 2020, 102, 106032.	3.9	19
12	Compressive behavior of 420 stainless steel after asynchronous laser processing. <i>CIRP Annals - Manufacturing Technology</i> , 2020, 69, 169-172.	3.6	14
13	Quantitative nanoscale measurements of the thermomechanical properties of poly(ether ether ketone) (PEEK) using atomic force microscopy. <i>Journal of Applied Physics</i> , 2020, 128, 045101.	3.8	3
14	Quantitative Ultrasonic Characterization of Subsurface Inclusions in Tapered Roller Bearings. <i>Journal of Applied Physics</i> , 2020, 128, 045101.	3.8	2
15	Correlation Microanalysis of Localized Molecular Structure and Nano-mechanical Property of PVDF Based Copolymer. <i>Microscopy and Microanalysis</i> , 2019, 25, 2090-2091.	0.4	0
16	Enhanced ultrasonic detection of near-surface flaws using transverse-wave backscatter. <i>Ultrasonics</i> , 2019, 98, 20-27.	3.9	13
17	Ultrasonic wave propagation predictions for polycrystalline materials using three-dimensional synthetic microstructures: Phase velocity variations. <i>Journal of the Acoustical Society of America</i> , 2019, 145, 2171-2180.	1.1	7
18	Ultrasonic wave propagation predictions for polycrystalline materials using three-dimensional synthetic microstructures: Attenuation. <i>Journal of the Acoustical Society of America</i> , 2019, 145, 2181-2191.	1.1	13

#	ARTICLE	IF	CITATIONS
19	Non-paraxial multi-Gaussian beam model of Leaky Rayleigh waves generated by a focused immersion transducer. <i>Ultrasonics</i> , 2019, 97, 57-62.	3.9	3
20	Flaw detection with ultrasonic backscatter signal envelopes. <i>Journal of the Acoustical Society of America</i> , 2019, 145, EL142-EL148.	1.1	13
21	Generalized ultrasonic scattering model for arbitrary transducer configurations. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 4413-4424.	1.1	1
22	Ultrasonic flaw detection for two-phase Ti-6Al-4V based on secondary scattering. <i>NDT and E International</i> , 2019, 102, 199-206.	3.7	9
23	Dielectric and piezoelectric performance of gadolinium-doped lead lanthanum zirconate titanate. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 766-774.	2.1	23
24	Ultrasonic backscatter from elongated grains using line focused ultrasound. <i>Ultrasonics</i> , 2018, 82, 79-83.	3.9	11
25	Complementary Microscopy Techniques Applied for Characterizing the Localized Nanoscale Structure of Poly (Vinylidene Fluoride). <i>Microscopy and Microanalysis</i> , 2018, 24, 2040-2041.	0.4	0
26	Focused electron-beam-induced deposition for fabrication of highly durable and sensitive metallic AFM-IR probes. <i>Nanotechnology</i> , 2018, 29, 335702.	2.6	12
27	Enhanced Ultrasonic Flaw Detection Using an Ultrahigh Gain and Time-Dependent Threshold. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 1214-1225.	3.0	22
28	Statistics associated with the scattering of ultrasound from microstructure. <i>Ultrasonics</i> , 2017, 80, 58-61.	3.9	17
29	Numerical analysis of longitudinal ultrasonic attenuation in sintered materials using a simplified two-phase model. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 1226-1237.	1.1	5
30	Transverse-to-transverse diffuse ultrasonic scattering. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 1112-1120.	1.1	13
31	Diffuse ultrasonic backscatter using a multi-Gaussian beam model. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 195-205.	1.1	7
32	Ultrasonic attenuation of polycrystalline materials with a distribution of grain sizes. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 4347-4353.	1.1	75
33	Nanomechanical Properties of Constituent Phases in Bituminous Mixtures. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, 04016090.	2.9	8
34	Stress-dependent ultrasonic scattering in polycrystalline materials. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 811-824.	1.1	14
35	Mode-converted ultrasonic scattering in polycrystals with elongated grains. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 1570-1580.	1.1	26
36	Dependence of diffuse ultrasonic backscatter on residual stress in 1080 steel. <i>Ultrasonics</i> , 2016, 67, 65-69.	3.9	9

#	ARTICLE	IF	CITATIONS
37	On the acoustoelasticity of polycrystalline materials. Journal of the Acoustical Society of America, 2015, 138, 1498-1507.	1.1	10
38	Voigt, Reuss, Hill, and self-consistent techniques for modeling ultrasonic scattering. AIP Conference Proceedings, 2015, , .	0.4	18
39	Stress-dependent second-order grain statistics of polycrystals. Journal of the Acoustical Society of America, 2015, 138, 2613-2625.	1.1	8
40	Acoustic attenuation coefficients for polycrystalline materials containing crystallites of any symmetry class. Journal of the Acoustical Society of America, 2015, 137, EL476-EL482.	1.1	33
41	Acoustic nonlinearity parameters for transversely isotropic polycrystalline materials. Journal of the Acoustical Society of America, 2015, 137, 3272-3280.	1.1	13
42	Patterning mechanisms of cytoskeletal and cell wall systems during leaf trichome morphogenesis. Nature Plants, 2015, 1, 15014.	9.3	114
43	Contribution of double scattering in diffuse ultrasonic backscatter measurements. Journal of the Acoustical Society of America, 2015, 137, 321-334.	1.1	23
44	Measurement of Quench Depth in Railroad Wheels by Diffuse Ultrasonic Backscatter. Journal of Nondestructive Evaluation, 2014, 33, 104.	2.4	5
45	Anisotropic loss of toughness with physical aging of work toughened polycarbonate. Polymer Engineering and Science, 2014, 54, 794-804.	3.1	5
46	Quantifying plant cell-wall failure in vivo using nanoindentation. MRS Communications, 2014, 4, 107-111.	1.8	5
47	Ultrasonic attenuation in pearlitic steel. Ultrasonics, 2014, 54, 882-887.	3.9	39
48	Evaluation of Railroad Wheel Steel with Lamellar Duplex Microstructures Using Diffuse Ultrasonic Backscatter. Journal of Nondestructive Evaluation, 2013, 32, 331-340.	2.4	21
49	<i>In vivo</i> extraction of Arabidopsis cell turgor pressure using nanoindentation in conjunction with finite element modeling. Plant Journal, 2013, 73, 509-520.	5.7	79
50	Ultrasonic backscatter in two-phase media and its dependency on the correlation function. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
51	Nanoindentation to quantify the effect of insect dimorphism on the mechanical properties of insect rubberlike cuticle. Journal of Materials Research, 2013, 28, 2650-2659.	2.6	10
52	Mode-converted diffuse ultrasonic backscatter. Journal of the Acoustical Society of America, 2013, 134, 982-990.	1.1	30
53	Synthetic Polymer Composites Reinforced by Bamboo Fibers. Macromolecular Symposia, 2013, 327, 114-120.	0.7	7
54	Measurement of thermally induced stresses in continuously welded rail through diffuse ultrasonic backscatter. AIP Conference Proceedings, 2012, , .	0.4	5

#	ARTICLE	IF	CITATIONS
55	Viscoelastic properties of cell walls of single living plant cells determined by dynamic nanoindentation. Journal of Experimental Botany, 2012, 63, 2525-2540.	4.8	97
56	Service Life Testing of Components with Defects in the Rolling Contact Fatigue Zone. , 2012, , 67-83.		6
57	Near-race Ultrasonic Detection of Subsurface Defects in Bearing Rings. , 2012, , 84-101.		5
58	Service Life Testing of Components with Defects in the Rolling Contact Fatigue Zone. , 2012, , 1-17.		0
59	Diffuse ultrasonic backscatter at normal incidence through a curved interface. Journal of the Acoustical Society of America, 2010, 128, 3449-3458.	1.1	49
60	Wigner distribution of a transducer beam pattern within a multiple scattering formalism for heterogeneous solids. Journal of the Acoustical Society of America, 2007, 122, 2009-2021.	1.1	64
61	Ultrasonic attenuation measurements in jet-engine nickel alloys. AIP Conference Proceedings, 2001, , .	0.4	7