

Tetsuo Yamaguchi

List of Publications by Year in descending order

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docs citations

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times ranked

864
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties of hybrid joints in timber structures. Journal of Wood Science, 2022, 68, .	1.9	3
2	On/off switching of adhesion in gecko-inspired adhesives. Biosurface and Biotribology, 2021, 7, 83-89.	1.5	2
3	Evaluation of influence of changes in permeability with aging on friction and biphasic behaviors of artificial hydrogel cartilage. Biotribology, 2021, 26, 100178.	1.9	5
4	Subsonic to Intersonic Transition in Sliding Friction for Soft Solids. Physical Review Letters, 2020, 124, 238001.	7.8	6
5	Topology and Toughening of Sparse Elastic Networks. Physical Review Letters, 2020, 124, 068002.	7.8	14
6	Patterning defects in high-speed reverse offset printing: lessons from contact dynamics. Journal of Micromechanics and Microengineering, 2019, 29, 045001.	2.6	5
7	Surface Effect on Frictional Properties for Thin Hydrogel Films of Poly(vinyl ether). Macromolecules, 2019, 52, 9632-9638.	4.8	9
8	Propagation of Fatigue Cracks in Friction of Brittle Hydrogels. Gels, 2018, 4, 53.	4.5	9
9	Simple model on debonding of soft adhesives. Soft Matter, 2018, 14, 6206-6213.	2.7	20
10	Special Tests. , 2018, , 593-612.		1
11	Occurrence prediction and theoretical analysis of snap-through buckling. The Proceedings of Conference of Kyushu Branch, 2018, 2018.71, K26.	0.0	0
12	The Influence of Proteins and Speed on Friction and Adsorption of Metal/UHMWPE Contact Pair. Biotribology, 2017, 11, 51-59.	1.9	24
13	Superior lubrication mechanism in poly(vinyl alcohol) hybrid gel as artificial cartilage. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2017, 231, 1160-1170.	1.8	16
14	Importance of adaptive multimode lubrication mechanism in natural synovial joints. Tribology International, 2017, 113, 306-315.	5.9	33
15	Slip Morphology of Elastic Strips on Frictional Rigid Substrates. Physical Review Letters, 2017, 118, 178001.	7.8	45
16	Occurrence prediction of snap-through buckling in coupled arch structures. The Proceedings of Conference of Kyushu Branch, 2017, 2017.70, 807.	0.0	0
17	Relationship between dynamic stress field and ECM production in regenerated cartilage tissue. , 2016, , .		1
18	Solvent effects on the fracture of chemically crosslinked gels. Soft Matter, 2016, 12, 8135-8142.	2.7	14

#	ARTICLE	IF	CITATIONS
19	Effects of loading angles on stick-slip dynamics of soft sliders. <i>Extreme Mechanics Letters</i> , 2016, 9, 331-335.	4.1	27
20	Fracture behavior of polymer network. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2016, 2016, G0300404.	0.0	0
21	Occurrence prediction of snap-through buckling of the continuous form the arch structure. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2016, 2016, J1010406.	0.0	0
22	Evaluation of a superior lubrication mechanism with biphasic hydrogels for artificial cartilage. <i>Tribology International</i> , 2015, 89, 19-26.	5.9	56
23	Bio-inspired Tribology. <i>Nippon Gomu Kyokaishi</i> , 2015, 88, 55-59.	0.0	0
24	Investigation on Oxidation of Shelf-Aged Crosslinked Ultra-High Molecular Weight Polyethylene (UHMWPE) and Its Effects on Wear Characteristics. <i>Tribology Online</i> , 2015, 10, 1-10.	0.9	2
25	Biphasic and boundary lubrication mechanisms in artificial hydrogel cartilage: A review. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2015, 229, 864-878.	1.8	29
26	Effect of radiation dose on depth-dependent oxidation and wear of shelf-aged gamma-irradiated ultra-high molecular weight polyethylene (UHMWPE). <i>Tribology International</i> , 2015, 89, 78-85.	5.9	14
27	1A44 Joint prostheses with artificial hydrogel cartilage with superior lubricity based on bionic design. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED//SME</i> , 2015, 2015.27, 45-46.	0.0	0
28	1A45 Evaluation of biphasic lubrication of artificial cartilage using MEMS pressure sensor. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED//SME</i> , 2015, 2015.27, 47-48.	0.0	0
29	Superior lubricity in articular cartilage and artificial hydrogel cartilage. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2014, 228, 1099-1111.	1.8	43
30	Earthquake model experiments in a viscoelastic fluid: A scaling of decreasing magnitudes of earthquakes with depth. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 3169-3181.	3.4	12
31	Mechanics of Adhesion. <i>Journal of the Adhesion Society of Japan</i> , 2014, 50, 142-147.	0.0	1
32	Rapid Swelling and Pattern Formation in Hydrogel Particles. <i>Nihon Reoroji Gakkaishi</i> , 2014, 42, 129-133.	1.0	0
33	Frictional Property of Hydrogels Prepared under Electric Fields. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 124803.	1.6	3
34	Meso-Scale Dynamics of Attachment-Detachment Processes in Adhesion and Friction. <i>Hyomen Kagaku</i> , 2013, 34, 68-72.	0.0	0
35	OS0501 In-situ visualization and modelling on debonding process of pressure-sensitive adhesives. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2013, 2013, _OS0501-1_-_OS0501-3_.	0.0	0
36	Asymmetry-symmetry transition of double-sided adhesive tapes. <i>Physical Review E</i> , 2012, 85, 061802.	2.1	5

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37	Failure of film formation of viscoelastic fluid: Dynamics of viscoelastic fluid in a partially filled horizontally rotating cylinder. <i>Physical Review E</i> , 2012, 85, 046307.	2.1	6
38	Visualization of Interface in Sliding Friction of Polymer Gels. <i>Nippon Gomu Kyokaishi</i> , 2012, 85, 319-323.	0.0	1
39	Gutenberg-Richter's law in sliding friction of gels. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	28
40	Friction Control of a Gel by Electric Field in Ionic Surfactant Solution. <i>Journal of the Physical Society of Japan</i> , 2010, 79, 063602.	1.6	7
41	Rate-dependent frictional adhesion in natural and synthetic gecko setae. <i>Journal of the Royal Society Interface</i> , 2010, 7, 259-269.	3.4	97
42	Observation of spatio-temporal structure in stick-slip motion of an adhesive gel sheet. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 365104.	1.8	16
43	Measurement of the receding contact angle at the interface between a viscoelastic material and a rigid surface. <i>Soft Matter</i> , 2010, 6, 2685.	2.7	29
44	Regular to chaotic transition of stick-slip motion in sliding friction of an adhesive gel-sheet. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 205105.	1.8	34
45	Electric Field Effect on the Sliding Friction of a Charged Gel. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 084602.	1.6	13
46	Microscopic Modeling of the Dynamics of Frictional Adhesion in the Gecko Attachment System. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3622-3628.	2.6	22
47	Deformation and adhesion of a periodic soft-soft nanocomposite designed with structured polymer colloid particles. <i>Soft Matter</i> , 2009, 5, 1440.	2.7	71
48	Sliding Friction of an Adhesive Gel-sheet. <i>Nippon Gomu Kyokaishi</i> , 2009, 82, 93-97.	0.0	0
49	In situ observation of stereoscopic shapes of cavities in soft adhesives. <i>Europhysics Letters</i> , 2007, 77, 64002.	2.0	47
50	Friction Coefficient between Rubber and Solid Substrate -Effect of Rubber Thickness-. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 043601.	1.6	18
51	Analytical solution for the deformation of pressure sensitive adhesives confined between two rigid plates. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 145, 52-56.	2.4	10
52	Molecular Dynamics Study of the Adhesion between End-Grafted Polymer Films II -Effect of Grafting Density-. <i>Polymer Journal</i> , 2007, 39, 73-80.	2.7	14
53	Molecular Dynamics Study of the Adhesion between End-grafted Polymer Films. <i>Polymer Journal</i> , 2005, 37, 782-788.	2.7	19
54	Wetting dynamics of viscoelastic solid films. <i>Soft Matter</i> , 0, , .	2.7	0