

Tetsuo Yamaguchi

List of Publications by Year in descending order

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54
papers

831
citations

471509
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54
all docs

54
docs citations

54
times ranked

864
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Evaluation of a superior lubrication mechanism with biphasic hydrogels for artificial cartilage. <i>Tribology International</i> , 2015, 89, 19-26.	5.9	56
4	In situ observation of stereoscopic shapes of cavities in soft adhesives. <i>Europhysics Letters</i> , 2007, 77, 64002.	2.0	47
5	Slip Morphology of Elastic Strips on Frictional Rigid Substrates. <i>Physical Review Letters</i> , 2017, 118, 178001.	7.8	45
6	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
7	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
8	Importance of adaptive multimode lubrication mechanism in natural synovial joints. <i>Tribology International</i> , 2017, 113, 306-315.	5.9	33
9	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
10	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
11	Gutenberg-Richter's law in sliding friction of gels. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	28
12	Effects of loading angles on stick-slip dynamics of soft sliders. <i>Extreme Mechanics Letters</i> , 2016, 9, 331-335.	4.1	27
13	The Influence of Proteins and Speed on Friction and Adsorption of Metal/UHMWPE Contact Pair. <i>Biotribology</i> , 2017, 11, 51-59.	1.9	24
14	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
15	Simple model on debonding of soft adhesives. <i>Soft Matter</i> , 2018, 14, 6206-6213.	2.7	20
16	Molecular Dynamics Study of the Adhesion between End-grafted Polymer Films. <i>Polymer Journal</i> , 2005, 37, 782-788.	2.7	19
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Molecular Dynamics Study of the Adhesion between End-Grafted Polymer Films II "Effect of Grafting Density". Polymer Journal, 2007, 39, 73-80.	2.7	14
21	Effect of radiation dose on depth-dependent oxidation and wear of shelf-aged gamma-irradiated ultra-high molecular weight polyethylene (UHMWPE). Tribology International, 2015, 89, 78-85.	5.9	14
22	Solvent effects on the fracture of chemically crosslinked gels. Soft Matter, 2016, 12, 8135-8142.	2.7	14
23	Topology and Toughening of Sparse Elastic Networks. Physical Review Letters, 2020, 124, 068002.	7.8	14
24	Electric Field Effect on the Sliding Friction of a Charged Gel. Journal of the Physical Society of Japan, 2009, 78, 084602.	1.6	13
25	Earthquake model experiments in a viscoelastic fluid: A scaling of decreasing magnitudes of earthquakes with depth. Journal of Geophysical Research: Solid Earth, 2014, 119, 3169-3181.	3.4	12
26	Analytical solution for the deformation of pressure sensitive adhesives confined between two rigid plates. Journal of Non-Newtonian Fluid Mechanics, 2007, 145, 52-56.	2.4	10
27	Propagation of Fatigue Cracks in Friction of Brittle Hydrogels. Gels, 2018, 4, 53.	4.5	9
28	Surface Effect on Frictional Properties for Thin Hydrogel Films of Poly(vinyl ether). Macromolecules, 2019, 52, 9632-9638.	4.8	9
29	Friction Control of a Gel by Electric Field in Ionic Surfactant Solution. Journal of the Physical Society of Japan, 2010, 79, 063602.	1.6	7
30	Failure of film formation of viscoelastic fluid: Dynamics of viscoelastic fluid in a partially filled horizontally rotating cylinder. Physical Review E, 2012, 85, 046307.	2.1	6
31	Subsonic to Intersonic Transition in Sliding Friction for Soft Solids. Physical Review Letters, 2020, 124, 238001.	7.8	6
32	Asymmetry-symmetry transition of double-sided adhesive tapes. Physical Review E, 2012, 85, 061802.	2.1	5
33	Patterning defects in high-speed reverse offset printing: lessons from contact dynamics. Journal of Micromechanics and Microengineering, 2019, 29, 045001.	2.6	5
34	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
35	Frictional Property of Hydrogels Prepared under Electric Fields. Journal of the Physical Society of Japan, 2013, 82, 124803.	1.6	3
36	Mechanical properties of hybrid joints in timber structures. Journal of Wood Science, 2022, 68, .	1.9	3

#	ARTICLE	IF	CITATIONS
37	Investigation on Oxidation of Shelf-Aged Crosslinked Ultra-High Molecular Weight Polyethylene (UHMWPE) and Its Effects on Wear Characteristics. Tribology Online, 2015, 10, 1-10.	0.9	2
38	On/off switching of adhesion in gecko-inspired adhesives. Biosurface and Biotribology, 2021, 7, 83-89.	1.5	2
39	Visualization of Interface in Sliding Friction of Polymer Gels. Nippon Gomu Kyokaishi, 2012, 85, 319-323.	0.0	1
40	Mechanics of Adhesion. Journal of the Adhesion Society of Japan, 2014, 50, 142-147.	0.0	1
41	Relationship between dynamic stress field and ECM production in regenerated cartilage tissue. , 2016, , .		1
42	Special Tests. , 2018, , 593-612.		1
43	Sliding Friction of an Adhesive Gel-sheet. Nippon Gomu Kyokaishi, 2009, 82, 93-97.	0.0	0
44	Meso-Scale Dynamics of Attachment-Detachment Processes in Adhesion and Friction. Hyomen Kagaku, 2013, 34, 68-72.	0.0	0
45	Bio-inspired Tribology. Nippon Gomu Kyokaishi, 2015, 88, 55-59.	0.0	0
46	OS0501 In-situ visualization and modelling on debonding process of pressure-sensitive adhesives. The Proceedings of the Materials and Mechanics Conference, 2013, 2013, _OS0501-1_-_OS0501-3_.	0.0	0
47	Rapid Swelling and Pattern Formation in Hydrogel Particles. Nihon Reoraji Gakkaishi, 2014, 42, 129-133.	1.0	0
48	1A44 Joint prostheses with artificial hydrogel cartilage with superior lubricity based on bionic design. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JJSM, 2015, 2015.27, 45-46.	0.0	0
49	1A45 Evaluation of biphasic lubrication of artificial cartilage using MEMS pressure sensor. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JJSM, 2015, 2015.27, 47-48.	0.0	0
50	Fracture behavior of polymer network. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, G0300404.	0.0	0
51	Occurrence prediction of snap-through buckling of the continuous form the arch structure. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J1010406.	0.0	0
52	Occurrence prediction of snap-through buckling in coupled arch structures. The Proceedings of Conference of Kyushu Branch, 2017, 2017.70, 807.	0.0	0
53	Occurrence prediction and theoretical analysis of snap-through buckling. The Proceedings of Conference of Kyushu Branch, 2018, 2018.71, K26.	0.0	0
54	Wetting dynamics of viscoelastic solid films. Soft Matter, 0, , .	2.7	0