FjÃ³la JÃ³nsdÃ³ttir

List of Publications by Year
in descending order

35 papers	561 citations	759233 12 h-index	610901 24 g-index
35 all docs	35 docs citations	35 times ranked	475 citing authors

#	Article	IF	Citations
1	Instability of a biaxially stressed thin film on a substrate due to material diffusion over its free surface. Journal of the Mechanics and Physics of Solids, 1993, 41, 1245-1264.	4.8	121
2	A geometrical optimization of a magneto-rheological rotary brake in a prosthetic knee. Smart Materials and Structures, 2010, 19, 035023.	3.5	86
3	Quasistatic and dynamic regimes of granular material deformation under impulse loading. Journal of the Mechanics and Physics of Solids, 1997, 45, 1955-1999.	4.8	71
4	Influence of Parameter Variations on the Braking Torque of a Magnetorheological Prosthetic Knee. Journal of Intelligent Material Systems and Structures, 2009, 20, 659-667.	2.5	43
5	Equilibrium surface roughness of a strained epitaxial film due to surface diffusion induced by interface misfit dislocations. Mechanics of Materials, 1995, 20, 337-349.	3.2	33
6	On-line corrosion monitoring in geothermal district heating systems. II. Localized corrosion. Corrosion Science, 2007, 49, 1907-1917.	6.6	27
7	Rheology of Perfluorinated Polyether-based MR Fluids with Nanoparticles. Journal of Intelligent Material Systems and Structures, 2010, 21, 1051-1060.	2.5	27
8	An Experimental Investigation of Unimodal and Bimodal Magnetorheological Fluids with an Application in Prosthetic Devices. Journal of Intelligent Material Systems and Structures, 2011, 22, 539-549.	2.5	22
9	Use of Dynamic FEA for Design Modification and Energy Analysis of a Variable Stiffness Prosthetic Foot. Applied Sciences (Switzerland), 2020, 10, 650.	2.5	19
10	Computation of equilibrium surface fluctuations in strained epitaxial films due to interface misfit dislocations. Modelling and Simulation in Materials Science and Engineering, 1995, 3, 503-520.	2.0	18
11	Numerical modelling and experimental investigation of drug release from layered silicone matrix systems. European Journal of Pharmaceutical Sciences, 2013, 49, 671-678.	4.0	15
12	A numerical framework for drug transport in a multi-layer system with discontinuous interlayer condition. Mathematical Biosciences, 2018, 295, 11-23.	1.9	12
13	Elastic fields and energies of coherent surface islands. Modelling and Simulation in Materials Science and Engineering, 2006, 14, 1167-1180.	2.0	10
14	Continuum Modeling of Stress-Driven Surface Diffusion in Strained Elastic Materials. Materials Research Society Symposia Proceedings, 1993, 308, 383.	0.1	9
15	Numerical simulation of Franz diffusion experiment: Application to drug loaded soft contact lenses. Journal of Drug Delivery Science and Technology, 2017, 38, 18-27.	3.0	7
16	An Experimental Investigation into the Off-State Viscosity of MR Fluids. Journal of Intelligent Material Systems and Structures, 2011, 22, 1763-1767.	2.5	6
17	Large Amplitude Thermal Fluctuations of Confined Semiflexible Biopolymer Filaments. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	5
18	Numerical Modelling of Transdermal Delivery from Matrix Systems: Parametric Study and Experimental Validation with Silicone Matrices. Journal of Pharmaceutical Sciences, 2014, 103, 2366-2375.	3.3	4

#	Article	IF	Citations
19	Speed Adaptable Prosthetic Foot: Concept Description, Prototyping and Initial User Testing. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2978-2986.	4.9	4
20	Variable stiffness prosthetic foot based on rheology properties of shear thickening fluid. Smart Materials and Structures, 2020, 29, 095008.	3.5	4
21	Evolution of Surface Roughness of a Strained Epitaxial Film Due to Interface Misfit Dislocations. Materials Research Society Symposia Proceedings, 1993, 317, 309.	0.1	3
22	Bidisperse Perfluorinated Polyether (PFPE)-Based Magneto-Rheological Fluids in a Prosthetic Knee. , 2009, , .		3
23	A Multi-Objective Design Optimization of a Smart Magneto-Rheological Prosthetic Knee. , 2009, , .		3
24	A Numerical Framework for Diffusive Transport in Rotational Symmetric Systems with Discontinuous Interlayer Conditions. IFAC-PapersOnLine, 2018, 51, 643-648.	0.9	3
25	Multi-region finite element modelling of drug release from hydrogel based ophthalmic lenses. Mathematical Biosciences, 2021, 331, 108497.	1.9	3
26	Substrate Curvature Change Due to Morphological Instability of a Strained Epitaxial Surface Film. Materials Research Society Symposia Proceedings, 1996, 441, 495.	0.1	1
27	Field-On Versus Field-Off Characteristics of Magnetorheological Fluids With an Application in Prosthetic Devices. , 2011, , .		1
28	A SIMPLE SHEAR ANALYSIS OF MR FLUIDS. , 2011, , .		1
29	Seismic Design of Geothermal Pipeline Supports. , 2002, , 67.		0
30	AN EXPERIMENTAL INVESTIGATION INTO THE OFF-STATE VISCOSITY OF MR FLUIDS. , 2011, , .		0
31	Modeling Perfluorinated Polyether-Based MR Fluids. Journal of Intelligent Material Systems and Structures, 2011, 22, 1755-1761.	2.5	0
32	Modeling of Stiffness Characteristics in a Prosthetic Foot. , 2017, , .		0
33	The translational force acting on an elastic filament confined in a fluid-filled channel of varying width. Journal of the Mechanics and Physics of Solids, 2018, 120, 16-21.	4.8	0
34	Modelling the Release of Moxifloxacin from Plasma Grafted Intraocular Lenses with Rotational Symmetric Numerical Framework. Lecture Notes in Computer Science, 2018, , 329-339.	1.3	0
35	MODELING PERFLUORINATED POLYETHER BASED MR FLUIDS. , 2011, , .		0