

Tamás Haraszti

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,659
citations

304743

22
h-index

302126

39
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59
all docs

59
docs citations

59
times ranked

2441
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of and Defect Formation in the Self-Assembly of Polymeric Polycation ⁺ Montmorillonite Ultrathin Films. <i>Journal of the American Chemical Society</i> , 1997, 119, 6821-6832.	13.7	251
2	An Injectable Hybrid Hydrogel with Oriented Short Fibers Induces Unidirectional Growth of Functional Nerve Cells. <i>Small</i> , 2017, 13, 1702207.	10.0	147
3	Nanoscale Control of Surface Immobilized BMP-2: Toward a Quantitative Assessment of BMP-Mediated Signaling Events. <i>Nano Letters</i> , 2015, 15, 1526-1534.	9.1	87
4	Biofunctionalized aligned microgels provide 3D cell guidance to mimic complex tissue matrices. <i>Biomaterials</i> , 2018, 163, 128-141.	11.4	86
5	Diffusion and interaction in PEG-DA hydrogels. <i>Biointerphases</i> , 2013, 8, 36.	1.6	81
6	Cellular responses to beating hydrogels to investigate mechanotransduction. <i>Nature Communications</i> , 2019, 10, 4027.	12.8	60
7	Substrate engagement of integrins $\alpha 5 \beta 1$ and $\alpha v \beta 3$ is necessary, but not sufficient, for high directional persistence in migration on fibronectin. <i>Scientific Reports</i> , 2016, 6, 23258.	3.3	50
8	Nanoscale Arrangement of Apoptotic Ligands Reveals a Demand for a Minimal Lateral Distance for Efficient Death Receptor Activation. <i>Nano Letters</i> , 2009, 9, 4240-4245.	9.1	42
9	A Layer-by-Layer Single-Cell Coating Technique To Produce Injectable Beating Mini Heart Tissues via Microfluidics. <i>Biomacromolecules</i> , 2019, 20, 3746-3754.	5.4	42
10	Compartmentalized Jet Polymerization as a High-Resolution Process to Continuously Produce Anisometric Microgel Rods with Adjustable Size and Stiffness. <i>Advanced Materials</i> , 2019, 31, e1903668.	21.0	40
11	Cell Encapsulation in Soft, Anisometric Poly(ethylene) Glycol Microgels Using a Novel Radical-Free Microfluidic System. <i>Small</i> , 2019, 15, e1900692.	10.0	39
12	Membrane-Mimetic Dendrimerosomes Engulf Living Bacteria via Endocytosis. <i>Nano Letters</i> , 2019, 19, 5732-5738.	9.1	38
13	Synthetic 3D PEG-Anisogel Tailored with Fibronectin Fragments Induce Aligned Nerve Extension. <i>Biomacromolecules</i> , 2019, 20, 4075-4087.	5.4	38
14	Optical force sensor array in a microfluidic device based on holographic optical tweezers. <i>Lab on a Chip</i> , 2009, 9, 661.	6.0	36
15	Fibronectin promotes directional persistence in fibroblast migration through interactions with both its cell-binding and heparin-binding domains. <i>Scientific Reports</i> , 2017, 7, 3711.	3.3	33
16	Solvent-Induced Nanotopographies of Single Microfibers Regulate Cell Mechanotransduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7671-7685.	8.0	32
17	Enhanced Concanavalin ^A Binding to Preorganized Mannose Nanoarrays in Glycodendrimerosomes Revealed Multivalent Interactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8352-8360.	13.8	31
18	A Quantitative 3D Motility Analysis of <i>Trypanosoma brucei</i> by Use of Digital In-line Holographic Microscopy. <i>PLoS ONE</i> , 2012, 7, e37296.	2.5	29

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19	Functionalized Microgel Rods Interlinked into Soft Macroporous Structures for 3D Cell Culture. <i>Advanced Science</i> , 2022, 9, e2103554.	11.2	29
20	Measuring Forces between Two Single Actin Filaments during Bundle Formation. <i>Nano Letters</i> , 2011, 11, 3676-3680.	9.1	28
21	A catalyst-free, temperature controlled gelation system for in-mold fabrication of microgels. <i>Chemical Communications</i> , 2018, 54, 6943-6946.	4.1	28
22	Dissipative disassembly of colloidal microgel crystals driven by a coupled cyclic reaction network. <i>Soft Matter</i> , 2018, 14, 910-915.	2.7	27
23	Rapid and Robust Coating Method to Render Polydimethylsiloxane Surfaces Cell-Adhesive. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41091-41099.	8.0	26
24	Enhanced Biological Activity of BMP-2 Bound to Surface-Grafted Heparan Sulfate. <i>Advanced Biology</i> , 2017, 1, e1600041.	3.0	24
25	Layer-by-layer self-assembly preparation of layered double hydroxide/polyelectrolyte nanofilms monitored by surface plasmon resonance spectroscopy. <i>Colloid and Polymer Science</i> , 2005, 283, 937-945.	2.1	21
26	Toward Controlling the Formation, Degradation Behavior, and Properties of Hydrogels Synthesized by Azide-Michael Reactions. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1865-1873.	2.2	18
27	Unraveling topology-induced shape transformations in dendrimersomes. <i>Soft Matter</i> , 2021, 17, 254-267.	2.7	18
28	Microstructured Blood Vessel Surrogates Reveal Structural Tropism of Motile Malaria Parasites. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601178.	7.6	17
29	Bicyclic RGD peptides enhance nerve growth in synthetic PEG-based Anisogels. <i>Biomaterials Science</i> , 2021, 9, 4329-4342.	5.4	16
30	Granular Cellulose Nanofibril Hydrogel Scaffolds for 3D Cell Cultivation. <i>Macromolecular Rapid Communications</i> , 2020, 41, 2000191.	3.9	15
31	How Much Physical Guidance is Needed to Orient Growing Axons in 3D Hydrogels?. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000886.	7.6	14
32	Slurry nebulization ICP-AES spectrometry method for the determination of tin in organotin(IV) complexes. <i>Talanta</i> , 2000, 52, 1061-1067.	5.5	13
33	Desmosine-Inspired Cross-Linkers for Hyaluronan Hydrogels. <i>Scientific Reports</i> , 2013, 3, 2043.	3.3	13
34	Support and challenges to the melanosomal casing model based on nanoscale distribution of metals within iris melanosomes detected by X-ray fluorescence analysis. <i>Pigment Cell and Melanoma Research</i> , 2014, 27, 831-834.	3.3	13
35	Tailored environments to study motile cells and pathogens. <i>Cellular Microbiology</i> , 2018, 20, e12820.	2.1	13
36	Brush-Like Interface on Surface-Attached Hydrogels Repels Proteins and Bacteria. <i>Macromolecular Bioscience</i> , 2022, 22, e2200025.	4.1	13

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37	Nanorheology and Nanotribology of Two-Component Liquid Crystal. SAE International Journal of Fuels and Lubricants, 0, 1, 1517-1523.	0.2	12
38	Nano-Scale Morphology of Melanosomes Revealed by Small-Angle X-Ray Scattering. PLoS ONE, 2014, 9, e90884.	2.5	11
39	Flow conditions in the vicinity of microstructured interfaces studied by holography and implications for the assembly of artificial actin networks. Physical Chemistry Chemical Physics, 2011, 13, 13395.	2.8	10
40	Substrate Resistance to Traction Forces Controls Fibroblast Polarization. Biophysical Journal, 2020, 119, 2558-2572.	0.5	10
41	Cells feel the beat – temporal effect of cyclic mechanical actuation on muscle cells. Applied Materials Today, 2022, 27, 101492.	4.3	9
42	Scanning transmission X-ray microscopic analysis of purified melanosomes of the mouse iris. Micron, 2006, 37, 689-698.	2.2	8
43	Python algorithms in particle tracking microrheology. Chemistry Central Journal, 2012, 6, 144.	2.6	8
44	Thickness dependence of absorption of molecular thin films studied using FECO spectroscopy. Studies in Surface Science and Catalysis, 2001, 132, 881-884.	1.5	7
45	Biomimetic –Actin Cortex Models. ChemPhysChem, 2009, 10, 2777-2786.	2.1	7
46	Spectral analysis by XANES reveals that GPNMB influences the chemical composition of intact melanosomes. Pigment Cell and Melanoma Research, 2011, 24, 187-196.	3.3	7
47	Splinelike interpolation in particle tracking microrheology. Physical Review E, 2012, 86, 011501.	2.1	7
48	Anisometric Microstructures to Determine Minimal Critical Physical Cues Required for Neurite Alignment. Advanced Healthcare Materials, 2021, 10, e2100874.	7.6	7
49	Dendrimersome Synthetic Cells Harbor Cell Division Machinery of Bacteria. Advanced Materials, 2022, 34, e2202364.	21.0	7
50	BIOMIMETIC MODELS OF THE ACTIN CORTEX. Biophysical Reviews and Letters, 2009, 04, 17-32.	0.8	6
51	$\alpha 5 \beta 1$ -integrin and MT1-MMP promote tumor cell migration in 2D but not in 3D fibronectin microenvironments. Computational Mechanics, 2014, 53, 499-510.	4.0	6
52	Ionic Combisomes: A New Class of Biomimetic Vesicles to Fuse with Life. Advanced Science, 2022, 9, e2200617.	11.2	6
53	Reversibility and Viscoelastic Properties of Micropillar Supported and Oriented Magnesium Bundled F-Actin. PLoS ONE, 2015, 10, e0136432.	2.5	5
54	Reversible Laser Threshold Modulation in Dithienylethene Conjugated Polymer Blends: A Concept for <i>q</i> -Switching in Organic DFB Lasers. ACS Photonics, 2019, 6, 558-564.	6.6	5

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55	STXMPy: a new software package for automated region of interest selection and statistical analysis of XANES data. Chemistry Central Journal, 2010, 4, 11.	2.6	4
56	Leukocyte responses to immobilized patterns of CXCL8. Colloids and Surfaces B: Biointerfaces, 2016, 142, 385-391.	5.0	4
57	Light scattering and the fractal properties of hydrophilic and hydrophobic SiO ₂ aggregates in ethanol-toluene binary mixtures. Colloid and Polymer Science, 2002, 280, 736-743.	2.1	3
58	Fibronectin anchoring to viscoelastic poly(dimethylsiloxane) elastomers controls fibroblast mechanosensing and directional motility. Biomaterials, 2022, 287, 121646.	11.4	2
59	Enhanced Concanavalin A Binding to Preorganized Mannose Nanoarrays in Glycodendrimersomes Revealed Multivalent Interactions. Angewandte Chemie, 2021, 133, 8433-8441.	2.0	0