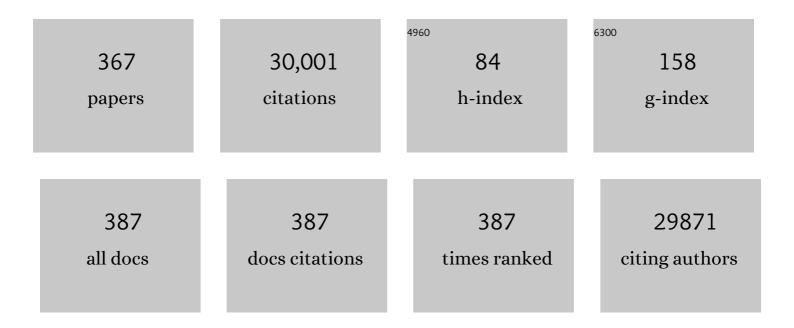
Joachim Pius Spatz

List of Publications by Year in descending order

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IOACHIM PILLS SPATZ

#	Article	IF	CITATIONS
1	Next Generation Cell Culture Tools Featuring Micro―and Nanotopographies for Biological Screening. Advanced Functional Materials, 2022, 32, 2100881.	14.9	14
2	Next Generation Cell Culture Tools Featuring Micro―and Nanotopographies for Biological Screening (Adv. Funct. Mater. 3/2022). Advanced Functional Materials, 2022, 32, .	14.9	1
3	Structural insights in cell-type specific evolution of intra-host diversity by SARS-CoV-2. Nature Communications, 2022, 13, 222.	12.8	23
4	Facile and Versatile Method for Micropatterning Poly(acrylamide) Hydrogels Using Photocleavable Comonomers. ACS Applied Materials & Interfaces, 2022, 14, 3643-3652.	8.0	10
5	4D Printing of Shape Memory Polymers: From Macro to Micro. Advanced Functional Materials, 2022, 32, .	14.9	73
6	Integrin α _{IIb} β ₃ Activation and Clustering in Minimal Synthetic Cells. Advanced NanoBiomed Research, 2022, 2, .	3.6	3
7	Synthetic virions reveal fatty acid-coupled adaptive immunogenicity of SARS-CoV-2 spike glycoprotein. Nature Communications, 2022, 13, 868.	12.8	20
8	Vesicle Induced Receptor Sequestration: Mechanisms behind Extracellular Vesicleâ€Based Protein Signaling. Advanced Science, 2022, 9, e2200201.	11.2	19
9	Together is Better: mRNA Coâ€Encapsulation in Lipoplexes is Required to Obtain Ratiometric Coâ€Đelivery and Protein Expression on the Single Cell Level. Advanced Science, 2022, 9, e2102072.	11.2	13
10	pH-Triggered Assembly of Endomembrane Multicompartments in Synthetic Cells. ACS Synthetic Biology, 2022, 11, 366-382.	3.8	6
11	Bottom-up assembly of target-specific cytotoxic synthetic cells. Biomaterials, 2022, 285, 121522.	11.4	10
12	Temperature-sensitive migration dynamics in neutrophil-differentiated HL-60 cells. Scientific Reports, 2022, 12, 7053.	3.3	3
13	Fibronectin anchoring to viscoelastic poly(dimethylsiloxane) elastomers controls fibroblast mechanosensing and directional motility. Biomaterials, 2022, 287, 121646.	11.4	2
14	Can Bottom-Up Synthetic Biology Generate Advanced Drug-Delivery Systems?. Trends in Biotechnology, 2021, 39, 445-459.	9.3	52
15	Controllable ligand spacing stimulates cellular mechanotransduction and promotes stem cell osteogenic differentiation on soft hydrogels. Biomaterials, 2021, 268, 120543.	11.4	48
16	Autonomous Directional Motion of Actinâ€Containing Cellâ€Sized Droplets. Advanced Intelligent Systems, 2021, 3, 2000190.	6.1	8
17	Division and Regrowth of Phase eparated Giant Unilamellar Vesicles**. Angewandte Chemie, 2021, 133, 10756-10764.	2.0	10
18	Surface Co-presentation of BMP-2 and integrin selective ligands at the nanoscale favors α5β1 integrin-mediated adhesion. Biomaterials, 2021, 267, 120484.	11.4	15

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19	Ultra-transparent slippery surface. Smart Materials in Medicine, 2021, 2, 38-45.	6.7	10
20	Microfluidic production and characterization of biofunctionalized giant unilamellar vesicles for targeted intracellular cargo delivery. Biomaterials, 2021, 264, 120203.	11.4	45
21	Precision Surface Microtopography Regulates Cell Fate via Changes to Actomyosin Contractility and Nuclear Architecture. Advanced Science, 2021, 8, 2003186.	11.2	41
22	Optically transparent vertical silicon nanowire arrays for live-cell imaging. Journal of Nanobiotechnology, 2021, 19, 51.	9.1	15
23	Division and Regrowth of Phaseâ€Separated Giant Unilamellar Vesicles**. Angewandte Chemie - International Edition, 2021, 60, 10661-10669.	13.8	66
24	Proton gradients from light-harvesting E. coli control DNA assemblies for synthetic cells. Nature Communications, 2021, 12, 3967.	12.8	32
25	Bottom-up assembly of biomedical relevant fully synthetic extracellular vesicles. Science Advances, 2021, 7, eabg6666.	10.3	42
26	Integrin α5β1 nano-presentation regulates collective keratinocyte migration independent of substrate rigidity. ELife, 2021, 10, .	6.0	11
27	Reply to Comment on Conopeptide-Functionalized Nanoparticles Selectively Antagonize Extrasynaptic N-Methyl-d-aspartate Receptors and Protect Hippocampal Neurons from Excitotoxicity In Vitro. ACS Nano, 2021, 15, 15409-15417.	14.6	0
28	Building a community to engineer synthetic cells and organelles from the bottom-up. ELife, 2021, 10, .	6.0	27
29	Integrin Subtypes and Nanoscale Ligand Presentation Influence Drug Sensitivity in Cancer Cells. Nano Letters, 2020, 20, 1183-1191.	9.1	31
30	Forces during cellular uptake of viruses and nanoparticles at the ventral side. Nature Communications, 2020, 11, 32.	12.8	35
31	Stem Cell Mechanosensation on Gelatin Methacryloyl (GelMA) Stiffness Gradient Hydrogels. Annals of Biomedical Engineering, 2020, 48, 893-902.	2.5	72
32	CCL21-loaded 3D hydrogels for T cell expansion and differentiation. Biomaterials, 2020, 259, 120313.	11.4	43
33	Engineering Lightâ€Responsive Contractile Actomyosin Networks with DNA Nanotechnology. Advanced Biology, 2020, 4, 2000102.	3.0	17
34	Soft Hydrogels for Balancing Cell Proliferation and Differentiation. ACS Biomaterials Science and Engineering, 2020, 6, 4687-4701.	5.2	37
35	Mechanobiology of leader–follower dynamics in epithelial cell migration. Current Opinion in Cell Biology, 2020, 66, 97-103.	5.4	17
36	Dropletâ€Based Combinatorial Assay for Cell Cytotoxicity and Cytokine Release Evaluation. Advanced Functional Materials, 2020, 30, 2003479.	14.9	12

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37	Droplet-Based Cytotoxicity Assay: Implementation of Time-Efficient Screening of Antitumor Activity of Natural Killer Cells. ACS Omega, 2020, 5, 24674-24683.	3.5	14
38	Free fatty acid binding pocket in the locked structure of SARS-CoV-2 spike protein. Science, 2020, 370, 725-730.	12.6	348
39	Dynamic heterogeneity influences the leader–follower dynamics during epithelial wound closure. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190391.	4.0	22
40	DNAâ€Based Assembly of Multi ompartment Polymersome Networks. Advanced Functional Materials, 2020, 30, 2003480.	14.9	18
41	Substrate Resistance to Traction Forces Controls Fibroblast Polarization. Biophysical Journal, 2020, 119, 2558-2572.	0.5	10
42	Labelâ€free monitoring and manipulation of microfluidic waterâ€inâ€oil droplets. View, 2020, 1, 20200101.	5.3	12
43	Ligand Diffusion Enables Forceâ€Independent Cell Adhesion via Activating α5β1 Integrin and Initiating Rac and RhoA Signaling. Advanced Materials, 2020, 32, e2002566.	21.0	50
44	BMPâ€⊋ Signaling and Mechanotransduction Synergize to Drive Osteogenic Differentiation via YAP/TAZ. Advanced Science, 2020, 7, 1902931.	11.2	66
45	Conopeptide-Functionalized Nanoparticles Selectively Antagonize Extrasynaptic <i>N</i> -Methyl- <scp>d</scp> -aspartate Receptors and Protect Hippocampal Neurons from Excitotoxicity <i>In Vitro</i> . ACS Nano, 2020, 14, 6866-6877.	14.6	10
46	Impaired integrin α ₅ ∫β ₁ â€nediated hepatocyte growth factor release by stellate cells of the aged liver. Aging Cell, 2020, 19, e13131.	6.7	25
47	Electrocoalescence of Water-in-Oil Droplets with a Continuous Aqueous Phase: Implementation of Controlled Content Release. ACS Omega, 2020, 5, 7529-7536.	3.5	7
48	Polymerâ€Based Porous Microcapsules as Bacterial Traps. Advanced Functional Materials, 2020, 30, 1908855.	14.9	12
49	A function of profilin in force generation during malaria parasite motility independent of actin binding. Journal of Cell Science, 2020, 134, .	2.0	11
50	Biomimetic Optical Nanostructures. PhotonicsViews, 2020, 17, 40-43.	0.1	0
51	Bottomâ€Up Assembly of Functional Intracellular Synthetic Organelles by Dropletâ€Based Microfluidics. Small, 2020, 16, e1906424.	10.0	42
52	Dynamic Actuation of DNA-Assembled Plasmonic Nanostructures in Microfluidic Cell-Sized Compartments. Nano Letters, 2020, 20, 1571-1577.	9.1	26
53	An optochemical tool for light-induced dissociation of adherens junctions to control mechanical coupling between cells. Nature Communications, 2020, 11, 472.	12.8	31
54	Black and white fused silica: modified sol-gel process combined with moth-eye structuring for highly absorbing and diffuse reflecting SiO ₂ glass. Optics Express, 2020, 28, 32499.	3.4	3

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55	Membrane-Mimetic Dendrimersomes Engulf Living Bacteria via Endocytosis. Nano Letters, 2019, 19, 5732-5738.	9.1	38
56	Volume Adaptation Controls Stem Cell Mechanotransduction. ACS Applied Materials & Interfaces, 2019, 11, 45520-45530.	8.0	57
57	Cell Type-Dependent Integrin Distribution in Adhesion and Migration Responses on Protein-Coated Microgrooved Substrates. ACS Omega, 2019, 4, 1791-1800.	3.5	22
58	One-Pot Assembly of Complex Giant Unilamellar Vesicle-Based Synthetic Cells. ACS Synthetic Biology, 2019, 8, 937-947.	3.8	114
59	Surface Immobilized E adherin Mimetic Peptide Regulates the Adhesion and Clustering of Epithelial Cells. Advanced Healthcare Materials, 2019, 8, e1801384.	7.6	16
60	Programmable Functionalization of Surfactantâ€Stabilized Microfluidic Droplets via DNAâ€Tags. Advanced Functional Materials, 2019, 29, 1808647.	14.9	34
61	Adhesion Stabilized <i>en Masse</i> Intracellular Electrical Recordings from Multicellular Assemblies. Nano Letters, 2019, 19, 3244-3255.	9.1	32
62	Machine-Learning-Driven Surface-Enhanced Raman Scattering Optophysiology Reveals Multiplexed Metabolite Gradients Near Cells. ACS Nano, 2019, 13, 1403-1411.	14.6	81
63	Cancer Cells Invade Confined Microchannels via a Self-Directed Mesenchymal-to-Amoeboid Transition. Nano Letters, 2019, 19, 2280-2290.	9.1	90
64	Morphological Plasticity of Human Melanoma Cells Is Determined by Nanoscopic Patterns of E- and N-Cadherin Interactions. Journal of Investigative Dermatology, 2019, 139, 562-572.	0.7	9
65	Differential Modulation of Platelet Adhesion and Spreading by Adhesive Ligand Density. Nano Letters, 2019, 19, 1418-1427.	9.1	23
66	Block Copolymer Brush Layer-Templated Gold Nanoparticles on Nanofibers for Surface-Enhanced Raman Scattering Optophysiology. ACS Applied Materials & Interfaces, 2019, 11, 4373-4384.	8.0	39
67	NTA-Co3+-His6 versus NTA-Ni2+-His6 mediated E-Cadherin surface immobilization enhances cellular traction. Biomaterials, 2019, 192, 171-178.	11.4	10
68	Combined â€~moth-eye' structured and graded index-layer anti-reflecting coating for high index glasses. Optics Express, 2019, 27, 34655.	3.4	13
69	Droplet-stabilized giant lipid vesicles as compartments for synthetic biology. , 2019, , 601-617.		0
70	Mastering Complexity: Towards Bottom-up Construction of Multifunctional Eukaryotic Synthetic Cells. Trends in Biotechnology, 2018, 36, 938-951.	9.3	205
71	Spherical network contraction forms microtubule asters in confinement. Soft Matter, 2018, 14, 901-909.	2.7	29
72	Tailored environments to study motile cells and pathogens. Cellular Microbiology, 2018, 20, e12820.	2.1	13

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73	The spatial molecular pattern of integrin recognition sites and their immobilization to colloidal nanobeads determine α2β1 integrin-dependent platelet activation. Biomaterials, 2018, 167, 107-120.	11.4	12
74	Sequential bottom-up assembly of mechanically stabilized synthetic cells by microfluidics. Nature Materials, 2018, 17, 89-96.	27.5	314
75	Cell–Extracellular Matrix Mechanobiology: Forceful Tools and Emerging Needs for Basic and Translational Research. Nano Letters, 2018, 18, 1-8.	9.1	103
76	Nanoscale Tuning of VCAM-1 Determines VLA-4–Dependent Melanoma Cell Plasticity on RGD Motifs. Molecular Cancer Research, 2018, 16, 528-542.	3.4	14
77	Surface Immobilization of Viruses and Nanoparticles Elucidates Early Events in Clathrin-Mediated Endocytosis. ACS Infectious Diseases, 2018, 4, 1585-1600.	3.8	18
78	Mechanical interactions among followers determine the emergence of leaders in migrating epithelial cell collectives. Nature Communications, 2018, 9, 3469.	12.8	124
79	MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. Angewandte Chemie, 2018, 130, 13566-13577.	2.0	27
80	Charge-controlled microfluidic formation of lipid-based single- and multicompartment systems. Lab on A Chip, 2018, 18, 2665-2674.	6.0	63
81	Laminin-521 promotes quiescence in isolated stellate cells from rat liver. Biomaterials, 2018, 180, 36-51.	11.4	15
82	MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. Angewandte Chemie - International Edition, 2018, 57, 13382-13392.	13.8	234
83	Combining Adhesive Nanostructured Surfaces and Costimulatory Signals to Increase T Cell Activation. Nano Letters, 2018, 18, 5899-5904.	9.1	27
84	Microstructured Blood Vessel Surrogates Reveal Structural Tropism of Motile Malaria Parasites. Advanced Healthcare Materials, 2017, 6, 1601178.	7.6	17
85	A Comprehensive Evaluation of the Activity and Selectivity Profile of Ligands for RGD-binding Integrins. Scientific Reports, 2017, 7, 39805.	3.3	425
86	Focal adhesion stabilization by enhanced integrin-cRGD binding affinity. BioNanoMaterials, 2017, 18, .	1.4	10
87	Stem cell migration and mechanotransduction on linear stiffness gradient hydrogels. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5647-5652.	7.1	370
88	Fibronectin promotes directional persistence in fibroblast migration through interactions with both its cell-binding and heparin-binding domains. Scientific Reports, 2017, 7, 3711.	3.3	33
89	Intermediate filament reorganization dynamically influences cancer cell alignment and migration. Scientific Reports, 2017, 7, 45152.	3.3	24
90	Reconceptualizing Fluorescence Correlation Spectroscopy for Monitoring and Analyzing Periodically Passing Objects. Analytical Chemistry, 2017, 89, 11672-11678.	6.5	7

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91	Highly Ordered Gold Nanopatterned Indium Tin Oxide Electrodes for Simultaneous Optical and Electrochemical Probing Cell Interactions. Analytical Chemistry, 2017, 89, 10054-10062.	6.5	15
92	Inverse Moth Eye Nanostructures with Enhanced Antireflection and Contamination Resistance. ACS Omega, 2017, 2, 5012-5018.	3.5	16
93	Integrin-Assisted T-Cell Activation on Nanostructured Hydrogels. Nano Letters, 2017, 17, 6110-6116.	9.1	74
94	Investigating Focal Adhesion Substructures by Localization Microscopy. Biophysical Journal, 2017, 113, 2508-2518.	0.5	20
95	Nanopatterned Adhesive, Stretchable Hydrogel to Control Ligand Spacing and Regulate Cell Spreading and Migration. ACS Nano, 2017, 11, 8282-8291.	14.6	86
96	Distance-dependent adhesion of vascular cells on biofunctionalized nanostructures. Current Directions in Biomedical Engineering, 2017, 3, 683-686.	0.4	0
97	A unique profilin-actin interface is important for malaria parasite motility. PLoS Pathogens, 2017, 13, e1006412.	4.7	50
98	Functional fusion of living systems with synthetic electrode interfaces. Beilstein Journal of Nanotechnology, 2016, 7, 296-301.	2.8	9
99	Precise AuxPt1â^'x Alloy Nanoparticle Array of Tunable Composition for Catalytic Applications. Scientific Reports, 2016, 6, 20536.	3.3	5
100	Getting a grip on collective cell migration. Nature Cell Biology, 2016, 18, 1265-1267.	10.3	5
101	Substrate engagement of integrins α5β1 and αvβ3 is necessary, but not sufficient, for high directional persistence in migration on fibronectin. Scientific Reports, 2016, 6, 23258.	3.3	50
102	Dynamic-SERS Optophysiology: A Nanosensor for Monitoring Cell Secretion Events. Nano Letters, 2016, 16, 3866-3871.	9.1	107
103	Direct patterning of vortex generators on a fiber tip using a focused ion beam. Optics Letters, 2016, 41, 2133.	3.3	28
104	Application of synthetic biology approaches for understanding encounters between cells and their microenvironment. Cell Adhesion and Migration, 2016, 10, 447-450.	2.7	2
105	Exploiting Noncovalent Interactions in an Imineâ€Based Covalent Organic Framework for Quercetin Delivery. Advanced Materials, 2016, 28, 8749-8754.	21.0	302
106	Template-assisted extrusion of biopolymer nanofibers under physiological conditions. Integrative Biology (United Kingdom), 2016, 8, 1059-1066.	1.3	28
107	Photocleavable linker for the patterning of bioactive molecules. Scientific Reports, 2016, 5, 18309.	3.3	44
108	Cobalt Cross-Linked Redox-Responsive PEG Hydrogels: From Viscoelastic Liquids to Elastic Solids. Macromolecules, 2016, 49, 4229-4235.	4.8	63

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109	Cobalt(III)â€Mediated Permanent and Stable Immobilization of Histidineâ€Tagged Proteins on NTAâ€Functionalized Surfaces. Chemistry - A European Journal, 2016, 22, 3156-3162.	3.3	39
110	Coupling of Retrograde Flow to Force Production During Malaria Parasite Migration. ACS Nano, 2016, 10, 2091-2102.	14.6	47
111	Primary cilia are critical for Sonic hedgehog-mediated dopaminergic neurogenesis in the embryonic midbrain. Developmental Biology, 2016, 409, 55-71.	2.0	44
112	Selective binding and lateral clustering of α 5 β 1 and α v β 3 integrins: Unraveling the spatial requirements for cell spreading and focal adhesion assembly. Cell Adhesion and Migration, 2016, 10, 505-515.	2.7	37
113	Nanoscale and mechanical properties of the physiological cell–ECM microenvironment. Experimental Cell Research, 2016, 343, 3-6.	2.6	78
114	Synthesis of Binary Nanopatterns on Hydrogels for Initiating Cellular Responses. Chemistry of Materials, 2016, 28, 1806-1815.	6.7	31
115	In vitro cancer cell–ECM interactions inform in vivo cancer treatment. Advanced Drug Delivery Reviews, 2016, 97, 270-279.	13.7	162
116	Synthetische Adhäion von Integrinâ€Liposomen als minimales Zellmodell. Angewandte Chemie, 2015, 127, 12649-12655.	2.0	3
117	Segregation Versus Colocalization: Orthogonally Functionalized Binary Micropatterned Substrates Regulate the Molecular Distribution in Focal Adhesions. Advanced Materials, 2015, 27, 3737-3747.	21.0	34
118	Regulation of integrin and growth factor signaling in biomaterials for osteodifferentiation. Beilstein Journal of Organic Chemistry, 2015, 11, 773-783.	2.2	47
119	Freely drawn single lipid nanotube patterns. Soft Matter, 2015, 11, 2029-2035.	2.7	6
120	Nanoscale Control of Surface Immobilized BMP-2: Toward a Quantitative Assessment of BMP-Mediated Signaling Events. Nano Letters, 2015, 15, 1526-1534.	9.1	87
121	Key Factors for Stable Retention of Fluorophores and Labeled Biomolecules in Droplet-Based Microfluidics. Analytical Chemistry, 2015, 87, 2063-2067.	6.5	30
122	Featured Article: Temporal responses of human endothelial and smooth muscle cells exposed to uniaxial cyclic tensile strain. Experimental Biology and Medicine, 2015, 240, 1298-1309.	2.4	16
123	A molecular mechanotransduction pathway regulates collective migration of epithelial cells. Nature Cell Biology, 2015, 17, 276-287.	10.3	314
124	Minimal Synthetic Cells to Study Integrinâ€₦ediated Adhesion. Angewandte Chemie - International Edition, 2015, 54, 12472-12478.	13.8	29
125	Receptor clustering control and associated force sensing by surface patterning: when force matters. Nanomedicine, 2015, 10, 681-684.	3.3	9
126	Bax monomers form dimer units in the membrane that further self-assemble into multiple oligomeric species. Nature Communications, 2015, 6, 8042.	12.8	140

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127	Nanopore Diameters Tune Strain in Extruded Fibronectin Fibers. Nano Letters, 2015, 15, 6357-6364.	9.1	26
128	A Photoactivatable Nanopatterned Substrate for Analyzing Collective Cell Migration with Precisely Tuned Cell-Extracellular Matrix Ligand Interactions. PLoS ONE, 2014, 9, e91875.	2.5	40
129	Model systems for studying cell adhesion and biomimetic actin networks. Beilstein Journal of Nanotechnology, 2014, 5, 1193-1202.	2.8	18
130	Optimizing the fabrication of diffractive optical elements using a focused ion beam system. , 2014, , .		3
131	Preparation of stable micropatterns of gold on cell-adhesion-resistant hydrogels assisted by a hetero-bifunctional macromonomer linker. Science China Chemistry, 2014, 57, 645-653.	8.2	13
132	\$\$upalpha 5upbeta \$\$ α 5 β 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
133	Interface Immobilization Chemistry of <i>c</i> RGDâ€based Peptides Regulates Integrin Mediated Cell Adhesion. Advanced Functional Materials, 2014, 24, 943-956.	14.9	57
134	Dual-Functionalized Nanostructured Biointerfaces by Click Chemistry. Langmuir, 2014, 30, 6897-6905.	3.5	36
135	Soft/Elastic Nanopatterned Biointerfaces in the Service of Cell Biology. Methods in Cell Biology, 2014, 119, 237-260.	1.1	9
136	Combined Effects of PEG Hydrogel Elasticity and Cell-Adhesive Coating on Fibroblast Adhesion and Persistent Migration. Biomacromolecules, 2014, 15, 195-205.	5.4	74
137	Investigation of early cell–surface interactions of human mesenchymal stem cells on nanopatterned β-type titanium–niobium alloy surfaces. Interface Focus, 2014, 4, 20130046.	3.0	20
138	Plasmonic Nanopipette Biosensor. Analytical Chemistry, 2014, 86, 8998-9005.	6.5	39
139	Nanoparticle Tension Probes Patterned at the Nanoscale: Impact of Integrin Clustering on Force Transmission. Nano Letters, 2014, 14, 5539-5546.	9.1	124
140	Engineering of synthetic cellular microenvironments: Implications for immunity. Journal of Autoimmunity, 2014, 54, 100-111.	6.5	33
141	Stable Biochemically Micro-patterned Hydrogel Layers Control Specific Cell Adhesion and Allow Long Term Cyclic Tensile Strain Experiments. Macromolecular Bioscience, 2014, 14, 1547-1555.	4.1	7
142	Effective polyethylene glycol passivation for the inhibition of surface interactions of peripheral blood mononuclear cells and platelets. Biointerphases, 2013, 8, 14.	1.6	9
143	Vinculin Regulates the Recruitment and Release of Core Focal Adhesion Proteins in a Force-Dependent Manner. Current Biology, 2013, 23, 271-281.	3.9	310
144	Adhesion Maturation of Neutrophils on Nanoscopically Presented Platelet Glycoprotein Ibα. ACS Nano, 2013, 7, 9984-9996.	14.6	51

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145	Real-time monitoring of electrochemical controlled protein adsorption by a plasmonic nanowire based sensor. Chemical Communications, 2013, 49, 8326.	4.1	19
146	The role of integrin-linked kinase in the molecular architecture of focal adhesions. Journal of Cell Science, 2013, 126, 4099-107.	2.0	75
147	Cell Migration: Tunable Substrates Unveil Chemical Complementation of a Genetic Cell Migration Defect (Adv. Healthcare Mater. 8/2013). Advanced Healthcare Materials, 2013, 2, 1161-1161.	7.6	0
148	Goldâ€Nanoparticleâ€Decorated Glass Microspheres. Particle and Particle Systems Characterization, 2013, 30, 940-944.	2.3	3
149	Artificial Antigenâ€Presenting Interfaces in the Service of Immunology. Israel Journal of Chemistry, 2013, 53, 655-669.	2.3	6
150	Toward Controlling the Formation, Degradation Behavior, and Properties of Hydrogels Synthesized by Azaâ€Michael Reactions. Macromolecular Chemistry and Physics, 2013, 214, 1865-1873.	2.2	18
151	Formation of Large 2D Arrays of Shapeâ€Controlled Colloidal Nanoparticles at Variable Interparticle Distances. Particle and Particle Systems Characterization, 2013, 30, 102-108.	2.3	27
152	Functionalizing αvβ3―or α5β1â€Selective Integrin Antagonists for Surface Coating: A Method To Discriminate Integrin Subtypes Inâ€Vitro. Angewandte Chemie - International Edition, 2013, 52, 1572-1575.	13.8	80
153	Colloidal Nanoparticles: Formation of Large 2D Arrays of Shapeâ€Controlled Colloidal Nanoparticles at Variable Interparticle Distances (Part. Part. Syst. Charact. 1/2013). Particle and Particle Systems Characterization, 2013, 30, 2-2.	2.3	1
154	The effect of molar mass and degree of hydroxyethylation on the controlled shielding and deshielding of hydroxyethyl starch-coated polyplexes. Biomaterials, 2013, 34, 2530-2538.	11.4	68
155	TMV nanorods with programmed longitudinal domains of differently addressable coat proteins. Nanoscale, 2013, 5, 3808.	5.6	97
156	Biselectivity of isoDGR Peptides for Fibronectin Binding Integrin Subtypes αSβ1 and αvβ6: Conformational Control through Flanking Amino Acids. Journal of Medicinal Chemistry, 2013, 56, 1509-1519.	6.4	67
157	Tunable Substrates Unveil Chemical Complementation of a Genetic Cell Migration Defect. Advanced Healthcare Materials, 2013, 2, 1162-1169.	7.6	23
158	Advances in Experimental Cell Biology and Cell-Material Interactions. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2013, , 87-105.	0.6	0
159	Contact Line Motion on Nanorough Surfaces: A Thermally Activated Process. Journal of the American Chemical Society, 2013, 135, 7159-7171.	13.7	48
160	Surface properties of nanostructured bio-active interfaces: impacts of surface stiffness and topography on cell–surface interactions. RSC Advances, 2013, 3, 13293.	3.6	25
161	A Molecular Toolkit for the Functionalization of Titaniumâ€Based Biomaterials That Selectively Control Integrinâ€Mediated Cell Adhesion. Chemistry - A European Journal, 2013, 19, 9218-9223.	3.3	53
162	Synthesis of Nanostructured and Biofunctionalized Water-in-Oil Droplets as Tools for Homing T Cells. Journal of the American Chemical Society, 2013, 135, 3339-3342.	13.7	59

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163	T Cell Activation is Determined by the Number of Presented Antigens. Nano Letters, 2013, 13, 5619-5626.	9.1	112
164	Marker-Free Phenotyping of Tumor Cells by Fractal Analysis of Reflection Interference Contrast Microscopy Images. Nano Letters, 2013, 13, 5474-5479.	9.1	34
165	Cell membrane topology analysis by RICM enables marker-free adhesion strength quantification. Biointerphases, 2013, 8, 28.	1.6	20
166	Polarizing cytoskeletal tension to induce leader cell formation during collective cell migration. Biointerphases, 2013, 8, 32.	1.6	64
167	Fine Tuning and Efficient T Cell Activation with Stimulatory aCD3 Nanoarrays. Nano Letters, 2013, 13, 5090-5097.	9.1	102
168	Increasing the Order Parameter of Quasi-Hexagonal Micellar Nanostructures by Ultrasound Annealing. Langmuir, 2013, 29, 989-993.	3.5	12
169	Desmosine-Inspired Cross-Linkers for Hyaluronan Hydrogels. Scientific Reports, 2013, 3, 2043.	3.3	13
170	Hydrogel Micropillars with Integrin Selective Peptidomimetic Functionalized Nanopatterned Tops: A New Tool for the Measurement of Cell Traction Forces Transmitted through α _v l² ₃ ―or α ₅ l² ₁ ―ntegrins. Advanced Materials, 2013, 25, 5869-5874.	21.0	54
171	Cobalt(III) as a Stable and Inert Mediator Ion between NTA and His6â€Tagged Proteins. Angewandte Chemie - International Edition, 2013, 52, 7593-7596.	13.8	90
172	Cyclic Tensile Strain Controls Cell Shape and Directs Actin Stress Fiber Formation and Focal Adhesion Alignment in Spreading Cells. PLoS ONE, 2013, 8, e77328.	2.5	96
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