Patrick van Rijn

List of Publications by Year in descending order

96 papers	2,984 citations	147726 31 h-index	197736 49 g-index
105 all docs	105 docs citations	105 times ranked	4187 citing authors

#	Article	IF	Citations
1	Photoactuating Artificial Muscles of Motor Amphiphiles as an Extracellular Matrix Mimetic Scaffold for Mesenchymal Stem Cells. Journal of the American Chemical Society, 2022, 144, 3543-3553.	6.6	27
2	Dynamic Covalent Crossâ€Linked Nanogelâ€Stabilized Pickering Emulsion for Responsive Microstructures. Macromolecular Rapid Communications, 2022, 43, e2100766.	2.0	1
3	Physics of Brain Cancer: Multiscale Alterations of Glioblastoma Cells under Extracellular Matrix Stiffening. Pharmaceutics, 2022, 14, 1031.	2.0	16
4	Topography-Mediated Enhancement of Nonviral Gene Delivery in Stem Cells. Pharmaceutics, 2022, 14, 1096.	2.0	3
5	Celebrating 30 Years of Netherlands Society for Biomaterials and Tissue Engineering: Past, Present, and Future. Tissue Engineering - Part A, 2022, 28, 459-460.	1.6	0
6	The Unfolded Protein Response Sensor PERK Mediates Stiffness-Dependent Adaptation in Glioblastoma Cells. International Journal of Molecular Sciences, 2022, 23, 6520.	1.8	4
7	Full humanization of the glycolytic pathway in Saccharomyces cerevisiae. Cell Reports, 2022, 39, 111010.	2.9	13
8	An Efficient UV-C Disinfection Approach and Biological Assessment Strategy for Microphones. Applied Sciences (Switzerland), 2022, 12, 7239.	1.3	1
9	Single Cell Reactomics: Realâ€Time Singleâ€Cell Activation Kinetics of Optically Trapped Macrophages. Small Methods, 2021, 5, e2000849.	4.6	13
10	High-Throughput Methods in the Discovery and Study of Biomaterials and Materiobiology. Chemical Reviews, 2021, 121, 4561-4677.	23.0	89
11	Macrophageâ€“stroma interactions in fibrosis: biochemical, biophysical, and cellular perspectives. Journal of Pathology, 2021, 254, 344-357.	2.1	32
12	Low nanogel stiffness favors nanogel transcytosis across an in vitro bloodâ€“brain barrier. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 34, 102377.	1.7	25
13	Adipose Stromal Cell-Secretome Counteracts Profibrotic Signals From IPF Lung Matrices. Frontiers in Pharmacology, 2021, 12, 669037.	1.6	8
14	3D-Printable Hierarchical Nanogel-GelMA Composite Hydrogel System. Polymers, 2021, 13, 2508.	2.0	13
15	pH Sensitive Dextran Coated Fluorescent Nanodiamonds as a Biomarker for HeLa Cells Endocytic Pathway and Increased Cellular Uptake. Nanomaterials, 2021, 11, 1837.	1.9	8
16	Nanogels: A novel approach in antimicrobial delivery systems and antimicrobial coatings. Bioactive Materials, 2021, 6, 3634-3657.	8.6	63
17	Aliphatic Quaternary Ammonium Functionalized Nanogels for Gene Delivery. Pharmaceutics, 2021, 13, 1964.	2.0	5
18	Well Plate Integrated Topography Gradient Screening Technology for Studying Cellâ€Surface Topography Interactions. Advanced Biology, 2020, 4, e1900218.	3.0	9

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19	Antimicrobial Electrodeposited Silver-Containing Calcium Phosphate Coatings. ACS Applied Materials & Interfaces, 2020, 12, 5531-5541.	4.0	67
20	Topography-driven alterations in endothelial cell phenotype and contact guidance. Heliyon, 2020, 6, e04329.	1.4	14
21	Antimicrobial Nanogels with Nanoinjection Capabilities for Delivery of the Hydrophobic Antibacterial Agent Triclosan. ACS Applied Polymer Materials, 2020, 2, 5779-5789.	2.0	29
22	Topography-Mediated Myotube and Endothelial Alignment, Differentiation, and Extracellular Matrix Organization for Skeletal Muscle Engineering. Polymers, 2020, 12, 1948.	2.0	11
23	Highly Efficient Antimicrobial and Antifouling Surface Coatings with Triclosan-Loaded Nanogels. ACS Applied Materials & Interfaces, 2020, 12, 57721-57731.	4.0	28
24	Highâ€Throughput Screening and Hierarchical Topographyâ€Mediated Neural Differentiation of Mesenchymal Stem Cells. Advanced Healthcare Materials, 2020, 9, e2000117.	3.9	36
25	Synergistic Effect of Cell-Derived Extracellular Matrices and Topography on Osteogenesis of Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2020, 12, 25591-25603.	4.0	41
26	Decoupling the Amplitude and Wavelength of Anisotropic Topography and the Influence on Osteogenic Differentiation of Mesenchymal Stem Cells Using a High-Throughput Screening Approach. ACS Applied Bio Materials, 2020, 3, 3690-3697.	2.3	6
27	Biomimetic Multiscale Hierarchical Topography Enhances Osteogenic Differentiation of Human Mesenchymal Stem Cells. Advanced Materials Interfaces, 2020, 7, 2000385.	1.9	20
28	Topography-Mediated Fibroblast Cell Migration Is Influenced by Direction, Wavelength, and Amplitude. ACS Applied Bio Materials, 2020, 3, 2104-2116.	2.3	24
29	Nanogels with Selective Intracellular Reactivity for Intracellular Tracking and Delivery. Chemistry - A European Journal, 2020, 26, 15084-15088.	1.7	8
30	Light-induced molecular rotation triggers on-demand release from liposomes. Chemical Communications, 2020, 56, 8774-8777.	2.2	15
31	Unidirectional rotating molecular motors dynamically interact with adsorbed proteins to direct the fate of mesenchymal stem cells. Science Advances, 2020, 6, eaay2756.	4.7	42
32	Biointerface topography regulates phenotypic switching and cell apoptosis in vascular smooth muscle cells. Biochemical and Biophysical Research Communications, 2020, 526, 841-847.	1.0	15
33	Topography induced stiffness alteration of stem cells influences osteogenic differentiation. Biomaterials Science, 2020, 8, 2638-2652.	2.6	41
34	Biointerface topography mediates the interplay between endothelial cells and monocytes. RSC Advances, 2020, 10, 13848-13854.	1.7	6
35	Rapid and Robust Coating Method to Render Polydimethylsiloxane Surfaces Cell-Adhesive. ACS Applied Materials & Interfaces, 2019, 11, 41091-41099.	4.0	26
36	Directional topography gradients drive optimum alignment and differentiation of human myoblasts. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 2234-2245.	1.3	28

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37	Cargo shuttling by electrochemical switching of coreâ€“shell microgels obtained by a facile one-shot polymerization. Chemical Science, 2019, 10, 1844-1856.	3.7	38
38	Biocatalytically induced surface modification of the tobacco mosaic virus and the bacteriophage M13. Chemical Communications, 2019, 55, 51-54.	2.2	3
39	Directional Topography Influences Adipose Mesenchymal Stromal Cell Plasticity: Prospects for Tissue Engineering and Fibrosis. Stem Cells International, 2019, 2019, 1-14.	1.2	28
40	3D impedimetric sensors as a tool for monitoring bacterial response to antibiotics. Lab on A Chip, 2019, 19, 1436-1447.	3.1	48
41	Mechanical and biological properties of electrodeposited calcium phosphate coatings. Materials Science and Engineering C, 2019, 100, 475-484.	3.8	43
42	Development of an Aptamer-Conjugated Polyrotaxane-Based Biodegradable Magnetic Resonance Contrast Agent for Tumor-Targeted Imaging. ACS Applied Bio Materials, 2019, 2, 406-416.	2.3	14
43	Inhibiting Bacterial Adhesion by Mechanically Modulated Microgel Coatings. Biomacromolecules, 2019, 20, 243-253.	2.6	55
44	bFGF and Polyâ€RGD Cooperatively Establish Biointerface for Stem Cell Adhesion, Proliferation, and Differentiation. Advanced Materials Interfaces, 2018, 5, 1700702.	1.9	12
45	Crystal growth mechanism of calcium phosphate coatings on titanium by electrochemical deposition. Surface and Coatings Technology, 2018, 334, 526-535.	2.2	45
46	Collagen morphology influences macrophage shape and marker expression inÂvitro. Journal of Immunology and Regenerative Medicine, 2018, 1, 13-20.	0.2	15
47	Development of a Novel Orthogonal Double Gradient for Highâ€Throughput Screening of Mesenchymal Stem Cellsâ€“Materials Interaction. Advanced Materials Interfaces, 2018, 5, 1800504.	1.9	24
48	Bioinspired Silica Mineralization on Viral Templates. Methods in Molecular Biology, 2018, 1776, 337-362.	0.4	8
49	Directing Mesenchymal Stem Cells with Gold Nanowire Arrays. Advanced Materials Interfaces, 2018, 5, 1800334.	1.9	32
50	The Relationship between Bulk Silicone and Benzophenone-Initiated Hydrogel Coating Properties. Polymers, 2018, 10, 534.	2.0	22
51	Alkaliâ€Mediated Miscibility of Gelatin/Polycaprolactone for Electrospinning Homogeneous Composite Nanofibers for Tissue Scaffolding. Macromolecular Bioscience, 2017, 17, 1700268.	2.1	33
52	Screening Platform for Cell Contact Guidance Based on Inorganic Biomaterial Micro/nanotopographical Gradients. ACS Applied Materials & Interfaces, 2017, 9, 31433-31445.	4.0	67
53	Surface Topography Guides Morphology and Spatial Patterning of Induced Pluripotent Stem Cell Colonies. Stem Cell Reports, 2017, 9, 654-666.	2.3	120
54	Anti-Microbial Biopolymer Hydrogel Scaffolds for Stem Cell Encapsulation. Polymers, 2017, 9, 149.	2.0	10

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55	Double Linear Gradient Biointerfaces for Determining Twoâ€Parameter Dependent Stem Cell Behavior. ChemNanoMat, 2016, 2, 407-413.	1.5	16
56	Viruses, Artificial Viruses and Virusâ€Based Structures for Biomedical Applications. Advanced Healthcare Materials, 2016, 5, 1386-1400.	3.9	30
57	Non-Covalently Stabilized Alginate Hydrogels as Functional Cell Scaffold Material. Macromolecular Bioscience, 2016, 16, 1693-1702.	2.1	16
58	Microstructured Hydrogel Templates for the Formation of Conductive Gold Nanowire Arrays. Macromolecular Rapid Communications, 2016, 37, 1446-1452.	2.0	14
59	Mechanical Properties of Aligned Nanotopologies for Directing Cellular Behavior. Advanced Materials Interfaces, 2016, 3, 1600275.	1.9	23
60	Morphology: Virus-SiO2 and Virus-SiO2 -Au Hybrid Particles with Tunable Morphology (Part. Part. Syst.) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.2	0
61	Directional nanotopographic gradients: a high-throughput screening platform for cell contact guidance. Scientific Reports, 2015, 5, 16240.	1.6	55
62	Virusâ€SiO₂ and Virusâ€SiO₂â€Au Hybrid Particles with Tunable Morphology. Particle and Particle Systems Characterization, 2015, 32, 43-47.	1.2	7
63	Ferritin: A Versatile Building Block for Bionanotechnology. Chemical Reviews, 2015, 115, 1653-1701.	23.0	330
64	Directed Autonomic Flow: Functional Motility Fluidics. Advanced Materials, 2015, 27, 7401-7406.	11.1	15
65	Biomaterialâ€“stem cell interactions and their impact on stem cell response. RSC Advances, 2014, 4, 53307-53320.	1.7	45
66	Ultraâ€Thin Selfâ€Assembled Proteinâ€Polymer Membranes: A New Pore Forming Strategy. Advanced Functional Materials, 2014, 24, 6762-6770.	7.8	34
67	Self-Assembled Membranes: Ultra-Thin Self-Assembled Protein-Polymer Membranes: A New Pore Forming Strategy (Adv. Funct. Mater. 43/2014). Advanced Functional Materials, 2014, 24, 6896-6896.	7.8	0
68	Formation of catalytically active goldâ€“polymer microgel hybrids via a controlled in situ reductive process. Journal of Materials Chemistry A, 2013, 1, 13244.	5.2	86
69	Self-Assembly Process of Soft Ferritin-PNIPAAm Conjugate Bionanoparticles at Polarâ€“Apolar Interfaces. Langmuir, 2013, 29, 276-284.	1.6	40
70	Morphology control and surface functionalization of proteinâ€“SiO2 hybrid capsules. Journal of Materials Chemistry B, 2013, 1, 6427.	2.9	3
71	Aggregationâ€Driven Reversible Formation of Conjugated Polymers in Water. Angewandte Chemie - International Edition, 2013, 52, 1998-2001.	7.2	47
72	Polymer Directed Protein Assemblies. Polymers, 2013, 5, 576-599.	2.0	32

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73	Challenges and advances in the field of self-assembled membranes. Chemical Society Reviews, 2013, 42, 6578.	18.7	96
74	Crossâ€Linking Density and Temperature Effects on the Selfâ€Assembly of SiO₂â€"PNIPAAm Coreâ€"Shell Particles at Interfaces. Chemistry - A European Journal, 2013, 19, 5586-5594.	1.7	27
75	Surface Initiated Polymerizations via e-ATRP in Pure Water. Polymers, 2013, 5, 1229-1240.	2.0	27
76	Hierarchical structures via self-assembling protein-polymer hybrid building blocks. Polymer, 2012, 53, 6045-6052.	1.8	19
77	Lysozymeâ€"silica hybrid materials: from nanoparticles to capsules and double emulsion mineral capsules. Chemical Communications, 2012, 48, 10210.	2.2	11
78	Artificial Leaves via Reproduction of Hierarchical Structures by a Fast Molding and Curing Process. Macromolecular Rapid Communications, 2012, 33, 1300-1303.	2.0	7
79	Responsive Macroscopic Materials From Selfâ€Assembled Crossâ€Linked SiO₂â€PNIPAAm Core/Shell Structures. Advanced Functional Materials, 2012, 22, 1724-1731.	7.8	23
80	Microstructures: Responsive Macroscopic Materials From Self-Assembled Cross-Linked SiO2-PNIPAAm Core/Shell Structures (Adv. Funct. Mater. 8/2012). Advanced Functional Materials, 2012, 22, 1723-1723.	7.8	3
81	Pickering emulsion templated soft capsules by self-assembling cross-linkable ferritinâ€"polymer conjugates. Chemical Communications, 2011, 47, 8376.	2.2	51
82	Bionanoparticles and hybrid materials: tailored structural properties, self-assembly, materials and developments in the field. Journal of Materials Chemistry, 2011, 21, 16735.	6.7	38
83	Ultra-sound assisted formation of biodegradable double emulsion capsules from hen egg white. Soft Matter, 2011, 7, 5274.	1.2	10
84	Self-assembly behaviour of conjugated terthiophenesurfactants in water. New Journal of Chemistry, 2011, 35, 558-567.	1.4	12
85	Synthetic inorganic materials by mimicking biomineralization processes using native and non-native protein functions. Journal of Materials Chemistry, 2011, 21, 18903.	6.7	35
86	Hybrid Capsules via Selfâ€Assembly of Thermoresponsive and Interfacially Active Bionanoparticleâ€"Polymer Conjugates. Advanced Functional Materials, 2011, 21, 2470-2476.	7.8	72
87	Thermoresponsive Capsules: Hybrid Capsules via Self-Assembly of Thermoresponsive and Interfacially Active Bionanoparticle-Polymer Conjugates (Adv. Funct. Mater. 13/2011). Advanced Functional Materials, 2011, 21, 2386-2386.	7.8	1
88	Piezoelectric Properties of Nonâ€Polar Block Copolymers. Advanced Materials, 2011, 23, 4047-4052.	11.1	13
89	Responsive Vesicles from Dynamic Covalent Surfactants. Angewandte Chemie - International Edition, 2011, 50, 3421-3424.	7.2	125
90	Programmed Morphological Transitions of Multisegment Assemblies by Molecular Chaperone Analogues. Angewandte Chemie - International Edition, 2011, 50, 12285-12289.	7.2	38

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91	Introduction of Curvature in Amphipathic Oligothiophenes for Defined Aggregate Formation. Chemistry - A European Journal, 2010, 16, 13417-13428.	1.7	19
92	Liposomes with conjugates of a calix[4]arene and a Gd-DOTA derivative on the outside surface; an efficient potential contrast agent for MRI. Chemical Communications, 2010, 46, 4399.	2.2	27
93	Size control and compartmentalization in self-assembled nano-structures of a multisegment amphiphile. Chemical Communications, 2010, 46, 3490.	2.2	23
94	Amphiphilic conjugated thiophenes for self-assembling antenna systems in water. Chemical Communications, 2009, , 2163.	2.2	9
95	Dynamic chirality, chirality transfer and aggregation behaviour of dithienylethene switches. Tetrahedron, 2008, 64, 8324-8335.	1.0	26
96	Mechanically Induced Generation of Counterions Inside Surface-Grafted Charged Macromolecular Films: Towards Enhanced Mechanotransduction in Artificial Systems. Angewandte Chemie - International Edition, 2006, 45, 7440-7443.	7.2	57