

Patricia Dankers

List of Publications by Year in descending order

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116
papers

5,427
citations

101543

36
h-index

88630

70
g-index

119
all docs

119
docs citations

119
times ranked

6440
citing authors

#	ARTICLE	IF	CITATIONS
1	Tough Stimuli-Responsive Supramolecular Hydrogels with Hydrogen-Bonding Network Junctions. <i>Journal of the American Chemical Society</i> , 2014, 136, 6969-6977.	13.7	525
2	A modular and supramolecular approach to bioactive scaffolds for tissue engineering. <i>Nature Materials</i> , 2005, 4, 568-574.	27.5	410
3	From supramolecular polymers to multi-component biomaterials. <i>Chemical Society Reviews</i> , 2017, 46, 6621-6637.	38.1	311
4	A Fast pH-Switchable and Self-Healing Supramolecular Hydrogel Carrier for Guided, Local Catheter Injection in the Infarcted Myocardium. <i>Advanced Healthcare Materials</i> , 2014, 3, 70-78.	7.6	261
5	Hierarchical Formation of Supramolecular Transient Networks in Water: A Modular Injectable Delivery System. <i>Advanced Materials</i> , 2012, 24, 2703-2709.	21.0	247
6	Substrates for cardiovascular tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 221-241.	13.7	235
7	In situ heart valve tissue engineering using a bioresorbable elastomeric implant – From material design to 12 months follow-up in sheep. <i>Biomaterials</i> , 2017, 125, 101-117.	11.4	231
8	Aggregation of Ureido-Pyrimidinone Supramolecular Thermoplastic Elastomers into Nanofibers: A Kinetic Analysis. <i>Macromolecules</i> , 2011, 44, 6776-6784.	4.8	163
9	Supramolecular Biomaterials. A Modular Approach towards Tissue Engineering. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 2047-2073.	3.2	121
10	Early in-situ cellularization of a supramolecular vascular graft is modified by synthetic stromal cell-derived factor-1 \pm derived peptides. <i>Biomaterials</i> , 2016, 76, 187-195.	11.4	95
11	Chemical and biological properties of supramolecular polymer systems based on oligocaprolactones. <i>Biomaterials</i> , 2006, 27, 5490-5501.	11.4	94
12	Sustained Delivery of Insulin-Like Growth Factor-1/Hepatocyte Growth Factor Stimulates Endogenous Cardiac Repair in the Chronic Infarcted Pig Heart. <i>Journal of Cardiovascular Translational Research</i> , 2014, 7, 232-241.	2.4	93
13	Oligo(trimethylene carbonate)-Based Supramolecular Biomaterials. <i>Macromolecules</i> , 2006, 39, 8763-8771.	4.8	90
14	Bioengineering of living renal membranes consisting of hierarchical, bioactive supramolecular meshes and human tubular cells. <i>Biomaterials</i> , 2011, 32, 723-733.	11.4	88
15	Mesoscale Modulation of Supramolecular Ureidopyrimidinone-Based Poly(ethylene glycol) Transient Networks in Water. <i>Journal of the American Chemical Society</i> , 2013, 135, 11159-11164.	13.7	86
16	Multicomponent Supramolecular Polymers as a Modular Platform for Intracellular Delivery. <i>ACS Nano</i> , 2016, 10, 1845-1852.	14.6	81
17	Development and in-vivo characterization of supramolecular hydrogels for intrarenal drug delivery. <i>Biomaterials</i> , 2012, 33, 5144-5155.	11.4	78
18	Self-Healing Biomaterials: From Molecular Concepts to Clinical Applications. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800118.	3.7	73

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19	Endothelial progenitor cell dysfunction in patients with progressive chronic kidney disease. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, F1314-F1322.	2.7	70
20	Enantioselective Cyclization of Racemic Supramolecular Polymers. <i>Journal of the American Chemical Society</i> , 2003, 125, 6860-6861.	13.7	65
21	Modulation of macrophage phenotype and protein secretion via heparin-IL-4 functionalized supramolecular elastomers. <i>Acta Biomaterialia</i> , 2018, 71, 247-260.	8.3	65
22	Molecular Recognition in Poly(μ -caprolactone)-Based Thermoplastic Elastomers. <i>Biomacromolecules</i> , 2006, 7, 3385-3395.	5.4	64
23	Controlling and tuning the dynamic nature of supramolecular polymers in aqueous solutions. <i>Chemical Communications</i> , 2017, 53, 2279-2282.	4.1	62
24	A modular approach to easily processable supramolecular bilayered scaffolds with tailorable properties. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2483-2493.	5.8	61
25	Injectable Supramolecular Ureidopyrimidinone Hydrogels Provide Sustained Release of Extracellular Vesicle Therapeutics. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900847.	7.6	61
26	Forced Peptide Synthesis in Nanoscale Confinement under Elastomeric Stamps. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4190-4193.	13.8	60
27	Engineering the Dynamics of Cell Adhesion Cues in Supramolecular Hydrogels for Facile Control over Cell Encapsulation and Behavior. <i>Advanced Materials</i> , 2021, 33, e2008111.	21.0	52
28	The Small Heat-Shock Proteins HSPB2 and HSPB3 Form Well-defined Heterooligomers in a Unique 3 to 1 Subunit Ratio. <i>Journal of Molecular Biology</i> , 2009, 393, 1022-1032.	4.2	50
29	The Use of Fibrous, Supramolecular Membranes and Human Tubular Cells for Renal Epithelial Tissue Engineering: Towards a Suitable Membrane for a Bioartificial Kidney. <i>Macromolecular Bioscience</i> , 2010, 10, 1345-1354.	4.1	49
30	Carbon Nanotube Reinforced Supramolecular Hydrogels for Bioapplications. <i>Macromolecular Bioscience</i> , 2019, 19, e1800173.	4.1	48
31	Development of Non-Cell Adhesive Vascular Grafts Using Supramolecular Building Blocks. <i>Macromolecular Bioscience</i> , 2016, 16, 350-362.	4.1	47
32	Disulfide Exchange in Hydrogen-Bonded Cyclic Assemblies: Stereochemical Self-Selection by Double Dynamic Chemistry. <i>Journal of Organic Chemistry</i> , 2005, 70, 5799-5803.	3.2	42
33	Collagen Targeting Using Protein-Functionalized Micelles: The Strength of Multiple Weak Interactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 7304-7312.	13.7	42
34	Efficient differentiation of CD14+ monocytic cells into endothelial cells on degradable biomaterials. <i>Biomaterials</i> , 2007, 28, 1470-1479.	11.4	41
35	Combining tissue repair and tissue engineering; bioactivating implantable cell-free vascular scaffolds. <i>Heart</i> , 2014, 100, 1825-1830.	2.9	39
36	Mesoscale Characterization of Supramolecular Transient Networks Using SAXS and Rheology. <i>International Journal of Molecular Sciences</i> , 2014, 15, 1096-1111.	4.1	37

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37	Introduction of Nature's Complexity in Engineered Blood-compatible Biomaterials. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700505.	7.6	37
38	Post-Assembly Functionalization of Supramolecular Nanostructures with Bioactive Peptides and Fluorescent Proteins by Native Chemical Ligation. <i>Bioconjugate Chemistry</i> , 2014, 25, 707-717.	3.6	36
39	Introduction of anti-fouling coatings at the surface of supramolecular elastomeric materials via post-modification of reactive supramolecular additives. <i>Polymer Chemistry</i> , 2017, 8, 5228-5238.	3.9	36
40	MRI Visualization of Injectable Ureidopyrimidinone Hydrogelators by Supramolecular Contrast Agent Labeling. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701139.	7.6	35
41	Material dependent differences in inflammatory gene expression by giant cells during the foreign body reaction. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 879-886.	4.0	34
42	TOF-Secondary Ion Mass Spectrometry Imaging of Polymeric Scaffolds with Surrounding Tissue after in Vivo Implantation. <i>Analytical Chemistry</i> , 2010, 82, 4337-4343.	6.5	34
43	Multicomponent supramolecular thermoplastic elastomer with peptide-modified nanofibers. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1764-1771.	2.3	33
44	Cell and Protein Fouling Properties of Polymeric Mixtures Containing Supramolecular Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	9.5	33
45	Functional supramolecular bioactivated electrospun mesh improves tissue ingrowth in experimental abdominal wall reconstruction in rats. <i>Acta Biomaterialia</i> , 2020, 106, 82-91.	8.3	33
46	Convenient Solid-Phase Synthesis of Ureido-Pyrimidinone Modified Peptides. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 3622-3632.	2.4	27
47	Peptide functionalised discotic amphiphiles and their self-assembly into supramolecular nanofibres. <i>Soft Matter</i> , 2011, 7, 7980.	2.7	27
48	A bioartificial environment for kidney epithelial cells based on a supramolecular polymer basement membrane mimic and an organotypical culture system. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 1820-1834.	2.7	27
49	Efficient Functionalization of Additives at Supramolecular Material Surfaces. <i>Advanced Materials</i> , 2017, 29, 1604652.	21.0	27
50	C60+ Secondary Ion Microscopy Using a Delay Line Detector. <i>Analytical Chemistry</i> , 2010, 82, 801-807.	6.5	26
51	From Molecular Structure to Macromolecular Organization: Keys to Design Supramolecular Biomaterials. <i>Macromolecules</i> , 2013, 46, 8528-8537.	4.8	25
52	Cucurbit[8]uril templated supramolecular ring structure formation and protein assembly modulation. <i>Chemical Communications</i> , 2015, 51, 3147-3150.	4.1	25
53	The degradation and performance of electrospun supramolecular vascular scaffolds examined upon in vitro enzymatic exposure. <i>Acta Biomaterialia</i> , 2019, 92, 48-59.	8.3	25
54	Host Response and Neo-Tissue Development during Resorption of a Fast Degrading Supramolecular Electrospun Arterial Scaffold. <i>Bioengineering</i> , 2018, 5, 61.	3.5	24

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55	Modular synthesis of supramolecular ureidopyrimidinone-peptide conjugates using an oxime ligation strategy. <i>Chemical Communications</i> , 2012, 48, 1452-1454.	4.1	23
56	Solid-Phase-Based Synthesis of Ureidopyrimidinone-Peptide Conjugates for Supramolecular Biomaterials. <i>Synlett</i> , 2015, 26, 2707-2713.	1.8	23
57	From kidney development to drug delivery and tissue engineering strategies in renal regenerative medicine. <i>Journal of Controlled Release</i> , 2011, 152, 177-185.	9.9	22
58	Antimicrobial peptide modification of biomaterials using supramolecular additives. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1926-1934.	2.3	21
59	Introduction of Enzyme-Responsivity in Biomaterials to Achieve Dynamic Reciprocity in Cell-Material Interactions. <i>Biomacromolecules</i> , 2021, 22, 4-23.	5.4	21
60	Modular supramolecular ureidopyrimidinone polymer carriers for intracellular delivery. <i>RSC Advances</i> , 2016, 6, 110600-110603.	3.6	20
61	Experimental reconstruction of an abdominal wall defect with electrospun polycaprolactone-ureidopyrimidinone mesh conserves compliance yet may have insufficient strength. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 88, 431-441.	3.1	19
62	Supramolecular surface functionalization via catechols for the improvement of cell-material interactions. <i>Biomaterials Science</i> , 2017, 5, 1541-1548.	5.4	18
63	In Vivo Retention Quantification of Supramolecular Hydrogels Engineered for Cardiac Delivery. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001987.	7.6	18
64	Protein Micropatterning in 2.5D: An Approach to Investigate Cellular Responses in Multi-Cue Environments. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25589-25598.	8.0	18
65	Supramolecular polymer materials bring restorative heart valve therapy to patients. <i>Materials Today</i> , 2022, 52, 175-187.	14.2	18
66	Controlled Release of RNAi Molecules by Tunable Supramolecular Hydrogel Carriers. <i>Chemistry - an Asian Journal</i> , 2018, 13, 3501-3508.	3.3	17
67	Supramolecular Antifouling Additives for Robust and Efficient Functionalization of Elastomeric Materials: Molecular Design Matters. <i>Advanced Functional Materials</i> , 2019, 29, 1805375.	14.9	16
68	Supramolecular Hydrogels for Biomedical Applications. <i>Macromolecular Bioscience</i> , 2019, 19, e1800452.	4.1	16
69	Functional peptide presentation on different hydrogen bonding biomaterials using supramolecular additives. <i>Biomaterials</i> , 2019, 224, 119466.	11.4	15
70	An Injectable and Drug-loaded Supramolecular Hydrogel for Local Catheter Injection into the Pig Heart. <i>Journal of Visualized Experiments</i> , 2015, , e52450.	0.3	14
71	Mechanically Robust Electrospun Hydrogel Scaffolds Crosslinked via Supramolecular Interactions. <i>Macromolecular Bioscience</i> , 2017, 17, 1700053.	4.1	14
72	Optimization of Anti-kinking Designs for Vascular Grafts Based on Supramolecular Materials. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	14

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73	Self-Assembly of Chiral Supramolecular Ureido-Pyrimidinone-Based Poly(ethylene glycol) Polymers via Multiple Pathways. <i>Macromolecules</i> , 2014, 47, 3823-3828.	4.8	13
74	From molecular design to 3D printed life-like materials with unprecedented properties. <i>Current Opinion in Biomedical Engineering</i> , 2017, 2, 43-48.	3.4	13
75	Cholesterol Modification of an Anticancer Drug for Efficient Incorporation into a Supramolecular Hydrogel System. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800007.	3.9	13
76	Multi-component supramolecular fibers with elastomeric properties and controlled drug release. <i>Biomaterials Science</i> , 2020, 8, 163-173.	5.4	13
77	Anisotropic hygro-expansion in hydrogel fibers owing to uniting 3D electrowriting and supramolecular polymer assembly. <i>European Polymer Journal</i> , 2020, 141, 110099.	5.4	13
78	Supramolecular Additive-Initiated Controlled Atom Transfer Radical Polymerization of Zwitterionic Polymers on Ureido-pyrimidinone-Based Biomaterial Surfaces. <i>Macromolecules</i> , 2020, 53, 4454-4464.	4.8	13
79	Supramolecular Modification of a Sequence-Controlled Collagen-Mimicking Polymer. <i>Biomacromolecules</i> , 2019, 20, 2360-2371.	5.4	12
80	Factors Influencing Retention of Injected Biomaterials to Treat Myocardial Infarction. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	12
81	Supramolecular Platform Stabilizing Growth Factors. <i>Biomacromolecules</i> , 2018, 19, 2610-2617.	5.4	11
82	Inconsistency in Graft Outcome of Bilayered Bioresorbable Supramolecular Arterial Scaffolds in Rats. <i>Tissue Engineering - Part A</i> , 2020, 27, 894-904.	3.1	11
83	Oxidative stress in pancreatic alpha and beta cells as a selection criterion for biocompatible biomaterials. <i>Biomaterials</i> , 2021, 267, 120449.	11.4	11
84	Distinct Effects of Heparin and Interleukin-4 Functionalization on Macrophage Polarization and In Situ Arterial Tissue Regeneration Using Resorbable Supramolecular Vascular Grafts in Rats. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101103.	7.6	11
85	Enzymatic Activity at the Surface of Biomaterials via Supramolecular Anchoring of Peptides: The Effect of Material Processing. <i>Macromolecular Bioscience</i> , 2011, 11, 1706-1712.	4.1	10
86	A Supramolecular Platform for the Introduction of Fc-Fusion Bioactive Proteins on Biomaterial Surfaces. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2044-2054.	4.4	10
87	The in vitro biocompatibility of ureido-pyrimidinone compounds and polymer degradation products. <i>Journal of Polymer Science</i> , 2021, 59, 1267-1277.	3.8	10
88	Animal studies for the evaluation of in situ tissue-engineered vascular grafts – a systematic review, evidence map, and meta-analysis. <i>Npj Regenerative Medicine</i> , 2022, 7, 17.	5.2	10
89	Core-Shell Capsules Based on Supramolecular Hydrogels Show Shell-Related Erosion and Release Due to Confinement. <i>Macromolecular Bioscience</i> , 2013, 13, 77-83.	4.1	9
90	Cucurbituril-mediated immobilization of fluorescent proteins on supramolecular biomaterials. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3607-3616.	2.3	9

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91	Influence of the Assembly State on the Functionality of a Supramolecular Jagged1-Mimicking Peptide Additive. <i>ACS Omega</i> , 2019, 4, 8178-8187.	3.5	9
92	Towards understanding the messengers of extracellular space: Computational models of outside-in integrin reaction networks. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 303-314.	4.1	9
93	Quantifying Guest-Host Dynamics in Supramolecular Assemblies to Analyze Their Robustness. <i>Macromolecular Bioscience</i> , 2019, 19, e1800296.	4.1	8
94	Imaging the In Vivo Degradation of Tissue Engineering Implants by Use of Supramolecular Radiopaque Biomaterials. <i>Macromolecular Bioscience</i> , 2020, 20, e2000024.	4.1	8
95	Biomaterial screening of protein coatings and peptide additives: towards a simple synthetic mimic of a complex natural coating for a bio-artificial kidney. <i>Biomaterials Science</i> , 2021, 9, 2209-2220.	5.4	8
96	Triple-marker cardiac MRI detects sequential tissue changes of healing myocardium after a hydrogel-based therapy. <i>Scientific Reports</i> , 2019, 9, 19366.	3.3	7
97	Renal Epithelial Monolayer Formation on Monomeric and Polymeric Catechol Functionalized Supramolecular Biomaterials. <i>Macromolecular Bioscience</i> , 2019, 19, e1800300.	4.1	7
98	Impact of Additives on Mechanical Properties of Supramolecular Electrospun Scaffolds. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3742-3748.	4.4	7
99	Convenient formulation and application of a supramolecular ureido-pyrimidinone modified poly(ethylene glycol) carrier for intrarenal growth factor delivery. <i>European Polymer Journal</i> , 2015, 72, 484-493.	5.4	6
100	Supramolecular Hydrogels for Regenerative Medicine. <i>Advances in Polymer Science</i> , 2015, , 253-279.	0.8	5
101	The effect of irradiation by ultraviolet light on ureido-pyrimidinone based biomaterials. <i>Journal of Polymer Science Part A</i> , 2016, 54, 81-90.	2.3	5
102	Supramolecular biomaterials based on ureidopyrimidinone and benzene-1,3,5-tricarboxamide moieties. , 2018, , 177-204.		5
103	Combinatorial functionalization with bisurea-peptides and antifouling bisurea additives of a supramolecular elastomeric biomaterial. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1725-1735.	2.1	5
104	Renal Epithelial Cell Responses to Supramolecular Thermoplastic Elastomeric Concave and Convex Structures. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001490.	3.7	5
105	Transplantation of Allogeneic PW1pos/Pax7neg Interstitial Cells Enhance Endogenous Repair of Injured Porcine Skeletal Muscle. <i>JACC Basic To Translational Science</i> , 2017, 2, 717-736.	4.1	4
106	Tuning the affinity of amphiphilic guest molecules in a supramolecular polymer transient network. <i>RSC Advances</i> , 2022, 12, 14052-14060.	3.6	4
107	Development of Poor Cell Adhesive Immersion Precipitation Membranes Based on Supramolecular Bis-urea Polymers. <i>Macromolecular Bioscience</i> , 2020, 20, e1900277.	4.1	3
108	Supramolecular Biomaterials in the Netherlands. <i>Tissue Engineering - Part A</i> , 2022, , .	3.1	3

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109	Drug Delivery: A Fast pH-Switchable and Self-Healing Supramolecular Hydrogel Carrier for Guided, Local Catheter Injection in the Infarcted Myocardium (Adv. Healthcare Mater. 1/2014). Advanced Healthcare Materials, 2014, 3, 69-69.	7.6	2
110	Dual Electrospun Supramolecular Polymer Systems for Selective Cell Migration. Macromolecular Bioscience, 2018, 18, e1800004.	4.1	2
111	Advances in the Development of Supramolecular Polymeric Biomaterials. , 2017, , 255-282.		1
112	Effectiveness of cell adhesive additives in different supramolecular polymers. Journal of Polymer Science, 2021, 59, 1253-1266.	3.8	1
113	Biomaterial-driven kidney organoid maturation. Current Opinion in Biomedical Engineering, 2022, 21, 100355.	3.4	1
114	Materiomics using synthetic materials: metals, cements, covalent polymers and supramolecular systems. , 0, , 31-50.		0
115	Cardiac patching and the regeneration of infarcted myocardium: where do we go from here?. Future Cardiology, 2014, 10, 167-170.	1.2	0
116	Polymer Science and Technology in the Institute for Complex Molecular Systems at Eindhoven University of Technology. Journal of Polymer Science, 2021, 59, 1129-1130.	3.8	0