

Paul H J Kouwer

List of Publications by Year in descending order

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105
papers

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101543

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112
docs citations

112
times ranked

4786
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-matrix reciprocity in 3D culture models with nonlinear elasticity. <i>Bioactive Materials</i> , 2022, 9, 316-331.	15.6	36
2	A Temperature-Base Easy-Separable (<i>TempEasy</i>) 3D Hydrogel Coculture System. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102389.	7.6	5
3	The living interface between synthetic biology and biomaterial design. <i>Nature Materials</i> , 2022, 21, 390-397.	27.5	68
4	Novel Synthetic Polymer-Based 3D Contraction Assay: A Versatile Preclinical Research Platform for Fibrosis. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19212-19225.	8.0	17
5	Magnetically Driven Hierarchical Alignment in Biomimetic Fibrous Hydrogels. <i>Small</i> , 2022, 18, .	10.0	8
6	Toward Tissue-Like Material Properties: Inducing In Situ Adaptive Behavior in Fibrous Hydrogels. <i>Advanced Materials</i> , 2022, 34, .	21.0	11
7	Tunable Hybrid Matrices Drive Epithelial Morphogenesis and YAP Translocation. <i>Advanced Science</i> , 2021, 8, 2003380.	11.2	13
8	Semiflexible polymer scaffolds: an overview of conjugation strategies. <i>Polymer Chemistry</i> , 2021, 12, 1362-1392.	3.9	13
9	Fibrous Hydrogels under Multi-Axial Deformation: Persistence Length as the Main Determinant of Compression Softening. <i>Advanced Functional Materials</i> , 2021, 31, 2010527.	14.9	17
10	Thin-Film Polyisocyanide-Based Hydrogels for Affinity Biosensors. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12960-12967.	3.1	8
11	Structure and Dynamics of a Temperature-Sensitive Hydrogel. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8219-8224.	2.6	4
12	Magnetic Stiffening in 3D Cell Culture Matrices. <i>Nano Letters</i> , 2021, 21, 6740-6747.	9.1	23
13	Combining Mechanical Tuneability with Function: Biomimetic Fibrous Hydrogels with Nanoparticle Crosslinkers. <i>Advanced Functional Materials</i> , 2021, 31, 2105713.	14.9	17
14	Multivalent Sgc8c-aptamer decorated polymer scaffolds for leukemia targeting. <i>Chemical Communications</i> , 2021, 57, 2744-2747.	4.1	12
15	Biomimetic Networks with Enhanced Photodynamic Antimicrobial Activity from Conjugated Polythiophene/Polyisocyanide Hybrid Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2720-2724.	13.8	55
16	Biomimetic Networks with Enhanced Photodynamic Antimicrobial Activity from Conjugated Polythiophene/Polyisocyanide Hybrid Hydrogels. <i>Angewandte Chemie</i> , 2020, 132, 2742-2746.	2.0	4
17	Polyisocyanopeptide Hydrogels Are Effectively Sterilized Using Supercritical Carbon Dioxide. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 132-141.	2.1	9
18	Antimicrobial and anti-inflammatory thermo-reversible hydrogel for periodontal delivery. <i>Acta Biomaterialia</i> , 2020, 116, 259-267.	8.3	46

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19	Polyisocyanide Hydrogels as a Tunable Platform for Mammary Gland Organoid Formation. <i>Advanced Science</i> , 2020, 7, 2001797.	11.2	31
20	Synthetic Extracellular Matrices as a Toolbox to Tune Stem Cell Secretome. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56723-56730.	8.0	28
21	Structural characterization of fibrous synthetic hydrogels using fluorescence microscopy. <i>Soft Matter</i> , 2020, 16, 4210-4219.	2.7	31
22	A tunable and injectable local drug delivery system for personalized periodontal application. <i>Journal of Controlled Release</i> , 2020, 324, 134-145.	9.9	56
23	Synthetic Semiflexible and Bioactive Brushes. <i>Biomacromolecules</i> , 2019, 20, 2587-2597.	5.4	10
24	Monitoring ¹¹¹ In-labelled polyisocyanopeptide (PIC) hydrogel wound dressings in full-thickness wounds. <i>Biomaterials Science</i> , 2019, 7, 3041-3050.	5.4	22
25	Cytoskeletal stiffening in synthetic hydrogels. <i>Nature Communications</i> , 2019, 10, 609.	12.8	63
26	Synthetic Extracellular Matrices with Nonlinear Elasticity Regulate Cellular Organization. <i>Biomacromolecules</i> , 2019, 20, 826-834.	5.4	71
27	Virus-like particles as crosslinkers in fibrous biomimetic hydrogels: approaches towards capsid rupture and gel repair. <i>Soft Matter</i> , 2018, 14, 1442-1448.	2.7	8
28	Strong optical nonlinearities of self-assembled polymorphic microstructures of phenylethynyl functionalized fluorenones. <i>Chinese Chemical Letters</i> , 2018, 29, 297-300.	9.0	25
29	Controlling the gelation temperature of biomimetic polyisocyanides. <i>Chinese Chemical Letters</i> , 2018, 29, 281-284.	9.0	19
30	Thermosensitive biomimetic polyisocyanopeptide hydrogels may facilitate wound repair. <i>Biomaterials</i> , 2018, 181, 392-401.	11.4	90
31	Tunable properties based on regioselectivity of 1,2,3-triazole units in axially chiral 2,2'-linked 1,1'-binaphthyl-based copolymers for ions and acid responsiveness. <i>European Polymer Journal</i> , 2018, 108, 191-198.	5.4	3
32	Crosslinking of fibrous hydrogels. <i>Nature Communications</i> , 2018, 9, 2172.	12.8	75
33	Anchoring strength measurements of a lyotropic chromonic liquid crystal on rubbed polyimide surfaces. <i>Liquid Crystals</i> , 2017, 44, 1165-1172.	2.2	13
34	Fully Stable and Homogeneous Lyotropic Liquid Crystal Alignment on Anisotropic Surfaces. <i>Advanced Functional Materials</i> , 2017, 27, 1701209.	14.9	17
35	Nonlinear mechanics of hybrid polymer networks that mimic the complex mechanical environment of cells. <i>Nature Communications</i> , 2017, 8, 15478.	12.8	60
36	Self-Healing Hydrogels Formed by Complexation between Calcium Ions and Bisphosphonate-Functionalized Star-Shaped Polymers. <i>Macromolecules</i> , 2017, 50, 8698-8706.	4.8	39

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37	Muscovite mica as a growth template of PC ₆₁ BM crystallites for organic photovoltaics. <i>CrystEngComm</i> , 2017, 19, 4424-4436.	2.6	4
38	Liquid crystal templating as an approach to spatially and temporally organise soft matter. <i>Chemical Society Reviews</i> , 2017, 46, 5935-5949.	38.1	57
39	Strategies To Increase the Thermal Stability of Truly Biomimetic Hydrogels: Combining Hydrophobicity and Directed Hydrogen Bonding. <i>Macromolecules</i> , 2017, 50, 9058-9065.	4.8	36
40	1 <i>H</i> -1,2,3,4-Triazole: From Structure to Function and Catalysis. <i>Journal of Heterocyclic Chemistry</i> , 2017, 54, 1677-1699.	2.6	30
41	Key Developments in Ionic Liquid Crystals. <i>International Journal of Molecular Sciences</i> , 2016, 17, 731.	4.1	68
42	Patterning of Soft Matter across Multiple Length Scales. <i>Advanced Functional Materials</i> , 2016, 26, 2609-2616.	14.9	25
43	Solid-state NMR characterization of tri-ethyleneglycol grafted polyisocyanopeptides. <i>Magnetic Resonance in Chemistry</i> , 2016, 54, 328-333.	1.9	3
44	Smectic A mesophases from luminescent sandic platinum(II) mesogens. <i>Liquid Crystals</i> , 2016, 43, 1709-1713.	2.2	10
45	Synthesis of Functional Fluorescent BODIPY-based Dyes through Electrophilic Aromatic Substitution: Straightforward Approach towards Customized Fluorescent Probes. <i>ChemistryOpen</i> , 2016, 5, 450-454.	1.9	7
46	Spatial and temporal patterning of polymers in electric field responsive LC templates. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8263-8269.	5.5	4
47	Order at Extreme Dilution. <i>Advanced Functional Materials</i> , 2016, 26, 9009-9016.	14.9	3
48	Critical behaviour in the nonlinear elastic response of hydrogels. <i>Soft Matter</i> , 2016, 12, 6995-7004.	2.7	9
49	Bundle Formation in Biomimetic Hydrogels. <i>Biomacromolecules</i> , 2016, 17, 2642-2649.	5.4	47
50	Directed peptide amphiphile assembly using aqueous liquid crystal templates in magnetic fields. <i>Soft Matter</i> , 2016, 12, 6518-6525.	2.7	11
51	Directing Soft Matter in Water Using Electric Fields. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16303-16309.	8.0	7
52	Unusual temperature dependence of elastic constants of an ambient-temperature discotic nematic liquid crystal. <i>Soft Matter</i> , 2016, 12, 2960-2964.	2.7	13
53	Fibrin-fiber architecture influences cell spreading and differentiation. <i>Cell Adhesion and Migration</i> , 2016, 10, 495-504.	2.7	29
54	Electric field generation of Skyrmion-like structures in a nematic liquid crystal. <i>Soft Matter</i> , 2016, 12, 853-858.	2.7	11

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55	Tuning Hydrogel Mechanics Using the Hofmeister Effect. <i>Advanced Functional Materials</i> , 2015, 25, 6503-6510.	14.9	102
56	Controlling Microsized Polymorphic Architectures with Distinct Linear and Nonlinear Optical Properties. <i>Advanced Optical Materials</i> , 2015, 3, 948-956.	7.3	39
57	Maximizing Orientational Order in Polymer-Stabilized Liquid Crystals Using High Magnetic Fields. <i>Macromolecules</i> , 2015, 48, 1002-1008.	4.8	3
58	Ultra-responsive soft matter from strain-stiffening hydrogels. <i>Nature Communications</i> , 2014, 5, 5808.	12.8	186
59	A facile route to hydrophilic ionic liquids. <i>RSC Advances</i> , 2014, 4, 30267-30273.	3.6	4
60	Stabilisation of 2D colloidal assemblies by polymerisation of liquid crystalline matrices for photonic applications. <i>Soft Matter</i> , 2014, 10, 5797-5803.	2.7	14
61	Preparation and characterization of non-linear poly(ethylene glycol) analogs from oligo(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 5,4 37	5.4	37
62	Stiffness versus architecture of single helical polyisocyanopeptides. <i>Chemical Science</i> , 2013, 4, 2357.	7.4	28
63	Towards room-temperature ionic liquid crystals. <i>Journal of Materials Chemistry A</i> , 2013, 1, 354-357.	10.3	22
64	Responsive biomimetic networks from polyisocyanopeptide hydrogels. <i>Nature</i> , 2013, 493, 651-655.	27.8	441
65	Templated Hierarchical Self-Assembly of Poly(<i>p</i> -aryltriazole) Foldamers. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11040-11044.	13.8	32
66	Self-Assembled Organic Microfibers for Nonlinear Optics. <i>Advanced Materials</i> , 2013, 25, 2084-2089.	21.0	119
67	Postfunctionalization of Helical Polyisocyanopeptides with Phthalocyanine Chromophores by "Click Chemistry". <i>ChemPlusChem</i> , 2012, 77, 700-706.	2.8	12
68	The trisubstituted-triazole approach to extended functional naphthalocyanines. <i>Journal of Porphyrins and Phthalocyanines</i> , 2011, 15, 898-907.	0.8	5
69	Triazole: a unique building block for the construction of functional materials. <i>Chemical Communications</i> , 2011, 47, 8740.	4.1	152
70	Fusing Triazoles: Toward Extending Aromaticity. <i>Organic Letters</i> , 2011, 13, 3494-3497.	4.6	41
71	Triazole-pyridine ligands: a novel approach to chromophoric iridium arrays. <i>Journal of Materials Chemistry</i> , 2011, 21, 2104-2111.	6.7	44
72	Multichromophoric Phthalocyanine-(Perylene)diimide ₈ Molecules: A Photophysical Study. <i>Chemistry - A European Journal</i> , 2010, 16, 10021-10029.	3.3	23

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73	Dynamics of molecular self-ordering in tetraphenyl porphyrin monolayers on metallic substrates. <i>Nanotechnology</i> , 2009, 20, 275602.	2.6	75
74	A Novel Modular Approach to Triazole-Functionalized Phthalocyanines Using Click Chemistry. <i>Journal of Organic Chemistry</i> , 2009, 74, 21-25.	3.2	79
75	Hierarchical organisation in shape-amphiphilic liquid crystals. <i>Journal of Materials Chemistry</i> , 2009, 19, 1564.	6.7	47
76	Columnar mesophases from half-discoid platinum cyclometalated metallomesogens. <i>Journal of Materials Chemistry</i> , 2008, 18, 400-407.	6.7	85
77	Long- and Short-Range Order in the Mesophases of Laterally Substituted Calamitic Mesogens and their Radial Octapodes. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6550-6556.	2.6	46
78	Uniform $\langle i \rangle N \langle /i \rangle$ -(2-Aminoethyl)(3-aminopropyl)trimethoxysilane Monolayer Growth in Water. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20105-20108.	3.1	14
79	Local lamellar organisation of discotic mesogens carrying fluorinated tails. <i>Journal of Materials Chemistry</i> , 2007, 17, 4196.	6.7	20
80	Columnar phase structures of an organic-inorganic hybrid functionalized with eight calamitic mesogens. <i>Soft Matter</i> , 2007, 3, 857-865.	2.7	37
81	Synthesis and Mesomorphic Properties of Rigid-Core Ionic Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2007, 129, 14042-14052.	13.7	182
82	Shape Dependence in the Formation of Condensed Phases Exhibited by Disubstituted Sucrose Esters. <i>Chemistry - A European Journal</i> , 2007, 13, 1763-1775.	3.3	25
83	Self-Organizing Properties of Monosubstituted Sucrose Fatty Acid Esters: The Effects of Chain Length and Unsaturation. <i>Chemistry - A European Journal</i> , 2006, 12, 3547-3557.	3.3	54
84	Disc-Shaped Triphenylenes in a Smectic Organisation.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
85	Discotic Multipodes with Nematic Mesophases. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 411, 387-396.	0.9	17
86	Mixtures of disc-shaped and rod-shaped mesogens with chiral components. <i>Journal of Materials Chemistry</i> , 2004, 14, 1798.	6.7	11
87	Dynamics and Phase Transitions in Discotic and Calamitic Liquid Crystal Side-chain Polymers. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 411, 503-513.	0.9	3
88	Substituent Effects in Discotic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 411, 305-312.	0.9	9
89	The Nematic Discotic Phase in Materials Containing a Siloxane Core. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 411, 377-385.	0.9	9
90	Disc-shaped triphenylenes in a smectic organisation. <i>Chemical Communications</i> , 2004, , 66.	4.1	43

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91	Multiple Levels of Order in Linked Disc-Rod Liquid Crystals. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 6015-6018.	13.8	46
92	Dynamics of discotic methoxy triphenylene molecules from quasielastic neutron scattering and molecular dynamics simulations. <i>Chemical Physics</i> , 2003, 292, 185-190.	1.9	11
93	Full Miscibility of Disk- and Rod-Shaped Mesogens in the Nematic Phase. <i>Journal of the American Chemical Society</i> , 2003, 125, 11172-11173.	13.7	82
94	Specific interactions in discotic liquid crystals. <i>Journal of Materials Chemistry</i> , 2003, 13, 458-469.	6.7	43
95	Dynamics of a Triphenylene Discotic Molecule, HAT6, in the Columnar and Isotropic Liquid Phases. <i>Journal of the American Chemical Society</i> , 2003, 125, 3860-3866.	13.7	67
96	Synthesis of Amphiphilic Phenylazophenyl Glycosides and a Study of Their Liquid Crystal Properties. <i>Journal of the American Chemical Society</i> , 2003, 125, 15499-15506.	13.7	52
97	A bilayer to monolayer phase transition in liquid crystal glycolipids Electronic supplementary information (ESI) available: synthesis of compound 3. See http://www.rsc.org/suppdata/cc/b3/b308880d/ . <i>Chemical Communications</i> , 2003, , 2860.	4.1	23
98	Nematic Phases of Disc-And Rod-Shaped Molecules. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 397, 1-16.	0.9	10
99	NEMATIC PHASES OF DISC-AND ROD-SHAPED MOLECULES. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 397, 1-1.	0.9	3
100	Induced Liquid Crystalline Diversity in Molecular and Polymeric Charge-Transfer Complexes of Discotic Mesogens. <i>Macromolecules</i> , 2002, 35, 2576-2582.	4.8	29
101	Charge Transfer Complexes of Discotic Liquid Crystals: A Flexible Route to a Wide Variety of Mesophases. <i>Macromolecules</i> , 2002, 35, 4322-4329.	4.8	59
102	The Nematic Lateral Phase: A Novel Phase in Discotic Supramolecular Assemblies. <i>Macromolecules</i> , 2001, 34, 7582-7584.	4.8	36
103	Modeling of Nematic and Columnar Phase Transitions in Discotic Side Chain Polymers by the Extended McMillan Theory. <i>Journal of the American Chemical Society</i> , 2001, 123, 4645-4646.	13.7	11
104	Synthesis and Characterization of a Novel Liquid Crystalline Polymer Showing a Nematic Columnar to Nematic Discotic Phase Transition. <i>Macromolecules</i> , 2000, 33, 4336-4342.	4.8	48
105	A Novel Polyaryl Ether Based Photorefractive Composite. <i>Chemistry of Materials</i> , 1998, 10, 3951-3957.	6.7	8