Thomas J Cleij

List of Publications by Year in Descending Order

89 papers	2,733 citations	25 h-index	50 g-index
96 ext. papers	3,012 ext. citations	5.6 avg, IF	4.62 L-index

#	Paper	IF	Citations
89	Polyphosphate-Based Hydrogels as Drug-Loaded Wound Dressing: An In Vitro Study. *ACS Applied Polymer Materials*, **2022**, 4, 2871-2879	4.3	0
88	Thermal Detection of Glucose in Urine Using a Molecularly Imprinted Polymer as a Recognition Element. *ACS Sensors*, **2021**,	9.2	6
87	Colorimetric Sensing of Amoxicillin Facilitated by Molecularly Imprinted Polymers. *Polymers*, **2021**, 13,	4.5	4
86	Modular Science Kit as a support platform for STEM learning in primary and secondary school. *Journal of Chemical Education*, **2021**, 98, 439-444	2.4	2
85	Imprinted Polymers as Synthetic Receptors in Sensors for Food Safety. *Biosensors*, **2021**, 11,	5.9	8
84	Identifying Potential Machine Learning Algorithms for the Simulation of Binding Affinities to Molecularly Imprinted Polymers. *Computation*, **2021**, 9, 103	2.2	1
83	Biomimetic sensing of Escherichia coli at the solid-liquid interface: From surface-imprinted polymer synthesis toward real sample sensing in food safety. *Microchemical Journal*, **2021**, 169, 106554	4.8	5
82	The Liberalization of Microfluidics: Form 2 Benchtop 3D Printing as an Affordable Alternative to Established Manufacturing Methods. *Physica Status Solidi (A) Applications and Materials Science*, **2020**, 217, 1900935	1.6	9
81	An Efficient Thermal Elimination Pathway toward Phosphodiester Hydrogels via a Precursor Approach. *Macromolecular Chemistry and Physics*, **2020**, 221, 1900466	2.6	2
80	Point of Care Diagnostics in Resource-Limited Settings: A Review of the Present and Future of PoC in Its Most Needed Environment. *Biosensors*, **2020**, 10,	5.9	19
79	MIPs for commercial application in low-cost sensors and assays - An overview of the current status quo. *Sensors and Actuators B: Chemical*, **2020**, 325, 128973	8.5	63
78	A Molecularly Imprinted Polymer-based Dye Displacement Assay for the Rapid Visual Detection of Amphetamine in Urine. *Molecules*, **2020**, 25,	4.8	5
77	Rapid Colorimetric Screening of Elevated Phosphate in Urine: A Charge-Transfer Interaction. *ACS Omega*, **2020**, 5, 21054-21066	3.9	4
76	Thermal Detection of Cardiac Biomarkers Heart-Fatty Acid Binding Protein and ST2 Using a Molecularly Imprinted Nanoparticle-Based Multiplex Sensor Platform. *ACS Sensors*, **2019**, 4, 2838-2845	9.2	31
75	Phosphodiester Hydrogels for Cell Scaffolding and Drug Release Applications. *Macromolecular Bioscience*, **2019**, 19, e1900090	5.5	5
74	Studying the Effect of Adhesive Layer Composition on MIP-Based Thermal Biosensing. *Physica Status Solidi (A) Applications and Materials Science*, **2019**, 216, 1800941	1.6	2
73	Biomimetic Bacterial Identification Platform Based on Thermal Transport Analysis Through Surface Imprinted Polymers: From Proof of Principle to Proof of Application. *Physica Status Solidi (A) Applications and Materials Science*, **2019**, 216, 1800688	1.6	4

72	Recent Advances in Electrosynthesized Molecularly Imprinted Polymer Sensing Platforms for Bioanalyte Detection. *Sensors*, **2019**, 19,	3.8	98
71	Surface grafted molecularly imprinted polymeric receptor layers for thermal detection of the New Psychoactive substance 2-methoxphenidine. *Sensors and Actuators A: Physical*, **2019**, 295, 586-595	3.9	15
70	Substrate displacement colorimetry for the detection of diarylethylamines. *Sensors and Actuators B: Chemical*, **2019**, 282, 137-144	8.5	9
69	SIP-Based Thermal Detection Platform for the Direct Detection of Bacteria Obtained from a Contaminated Surface. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1700777	1.6	3
68	A Novel Biomimetic Tool for Assessing Vitamin K Status Based on Molecularly Imprinted Polymers. *Nutrients*, **2018**, 10,	6.7	8
67	Optimization and characterization of a flow cell for heat-transfer-based biosensing. *Physica Status Solidi (A) Applications and Materials Science*, **2017**, 214, 1600758	1.6	5
66	Biomimetic Bacterial Identification Platform Based on Thermal Wave Transport Analysis (TWTA) through Surface-Imprinted Polymers. *ACS Infectious Diseases*, **2017**, 3, 388-397	5.5	27
65	Label-Free Detection of Small Organic Molecules by Molecularly Imprinted Polymer Functionalized Thermocouples: Toward In Vivo Applications. *ACS Sensors*, **2017**, 2, 583-589	9.2	23
64	Heat Transfer as a New Sensing Technique for the Label-Free Detection of Biomolecules. *Springer Series on Chemical Sensors and Biosensors*, **2017**, 383-407	2	1
63	In situ monitoring and optimization of CuAAC-mediated protein functionalization of biosurfaces. *Sensors and Actuators B: Chemical*, **2017**, 238, 992-1000	8.5	5
62	Studying the Drug Delivery Kinetics of a Nanoporous Matrix Using a MIP-Based Thermal Sensing Platform. *Polymers*, **2017**, 9,	4.5	3
61	Single-Shot Detection of Neurotransmitters in Whole-Blood Samples by Means of the Heat-Transfer Method in Combination with Synthetic Receptors. *Sensors*, **2017**, 17,	3.8	13
60	Label-Free Detection of Escherichia coli Based on Thermal Transport through Surface Imprinted Polymers. *ACS Sensors*, **2016**, 1, 1140-1147	9.2	53
59	Introducing Thermal Wave Transport Analysis (TWTA): A Thermal Technique for Dopamine Detection by Screen-Printed Electrodes Functionalized with Molecularly Imprinted Polymer (MIP) Particles. *Molecules*, **2016**, 21,	4.8	25
58	Application of electrodeposited piezo-resistive polypyrrole for a pressure-sensitive bruxism sensor. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 1505-1509	1.6	3
57	Label-free Protein Detection Based on the Heat-Transfer Method--A Case Study with the Peanut Allergen Ara h 1 and Aptamer-Based Synthetic Receptors. *ACS Applied Materials & Interfaces*, **2015**, 7, 10316-23	9.5	27
56	Strategy for Enhancing the Dielectric Constant of Organic Semiconductors Without Sacrificing Charge Carrier Mobility and Solubility. *Advanced Functional Materials*, **2015**, 25, 150-157	15.6	150
55	Heat-transfer-method-based cell culture quality assay through cell detection by surface imprinted polymers. *Langmuir*, **2015**, 31, 2043-50	4	26

54	The heat-transfer method: a versatile low-cost, label-free, fast, and user-friendly readout platform for biosensor applications. *ACS Applied Materials & Interfaces*, **2014**, 6, 13309-18	9.5	50
53	Molecular imprinted polymer films on RFID tags: a first step towards disposable packaging sensors. *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210, 938-944	1.6	15
52	Selective identification of macrophages and cancer cells based on thermal transport through surface-imprinted polymer layers. *ACS Applied Materials & Interfaces*, **2013**, 5, 7258-67	9.5	62
51	Impedimetric detection of histamine in bowel fluids using synthetic receptors with pH-optimized binding characteristics. *Analytical Chemistry*, **2013**, 85, 1475-83	7.8	48
50	Mobile Application for Impedance-Based Biomimetic Sensor Readout. *IEEE Sensors Journal*, **2013**, 13, 2659-2665	4	19
49	Living polymerization via anionic initiation for the synthesis of well-defined PPV materials. *Macromolecular Rapid Communications*, **2012**, 33, 242-7	4.8	13
48	MIP-based Sensor Platforms for Detection of Analytes in Nano- and Micromolar Range **2012**, 91-124		1
47	Electrosensitive polyacrylic acid/fibrin hydrogel facilitates cell seeding and alignment. *Biomacromolecules*, **2012**, 13, 1448-57	6.9	42
46	Development of multichannel quartz crystal microbalances for MIP-based biosensing. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 892-899	1.6	23
45	Detection of L-nicotine with dissipation mode quartz crystal microbalance using molecular imprinted polymers. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 905-910	1.6	9
44	Towards water compatible MIPs for sensing in aqueous media. *Journal of Molecular Recognition*, **2012**, 25, 344-51	2.6	23
43	Tetra-alkoxy substituted PPV derivatives: a new class of highly soluble liquid crystalline conjugated polymers. *Polymer Chemistry*, **2011**, 2, 1279	4.9	1
42	Opto-electrical and morphological characterization of water soluble conjugated polymers for eco-friendly hybrid solar cells. *Solar Energy Materials and Solar Cells*, **2011**, 95, 3262-3268	6.4	22
41	Synthesis and characterization of water-soluble poly(p-phenylene vinylene) derivatives via the dithiocarbamate precursor route. *European Polymer Journal*, **2011**, 47, 1827-1835	5.2	19
40	Discovery of an Anionic Polymerization Mechanism for High Molecular Weight PPV Derivatives via the Sulfinyl Precursor Route. *Macromolecules*, **2011**, 44, 7610-7616	5.5	22
39	Miniaturised eight-channel impedance spectroscopy unit as sensor platform for biosensor applications. *Physica Status Solidi (A) Applications and Materials Science*, **2011**, 208, 1357-1363	1.6	20
38	Controlling the Morphology and Efficiency of Hybrid ZnO:Polythiophene Solar Cells Via Side Chain Functionalization. *Advanced Energy Materials*, **2011**, 1, 90-96	21.8	78
37	Phase behavior of PCBM blends with different conjugated polymers. *Physical Chemistry Chemical Physics*, **2011**, 13, 12285-92	3.6	25

36	Broadening the absorption of conjugated polymers by "click" functionalization with phthalocyanines. *Dalton Transactions*, **2011**, 40, 3979-88	4.3	29
35	An Efficient Acid-Induced Conversion of Dithiocarbamate Precursor Polymers into Conjugated Materials. *Macromolecules*, **2011**, 44, 711-718	5.5	11
34	Synthesis and characterization of high molecular weight phthalocyanine-PPV copolymers through post-polymerization functionalization. *Journal of Porphyrins and Phthalocyanines*, **2011**, 15, 659-666	1.8	1
33	A three-step synthetic approach to asymmetrically functionalized 4H-cyclopenta[2,1-b:3,4-b']dithiophenes. *Journal of Organic Chemistry*, **2010**, 75, 7202-9	4.2	23
32	A deeper Insight into the Dithiocarbamate Precursor Route: Synthesis of Soluble Poly(thienylene vinylene) Derivatives for Photovoltaic Applications. *Macromolecules*, **2010**, 43, 10231-10240	5.5	20
31	Versatile post-polymerization functionalization of poly(p-phenylene vinylene) copolymers containing carboxylic acid substituents: development of a universal method towards functional conjugated copolymers. *Polymer Chemistry*, **2010**, 1, 1313	4.9	14
30	Kinetic and Mechanistic Study onp-Quinodimethane Formation in the Sulfinyl Precursor Route for the Polymerization of Poly(p-phenylenevinylene) (PPV). *Macromolecules*, **2010**, 43, 7424-7433	5.5	25
29	Alkyl-Chain-Length-Independent Hole Mobility via Morphological Control with Poly(3-alkylthiophene) Nanofibers. *Advanced Functional Materials*, **2010**, 20, 792-802	15.6	87
28	Cyclic voltammetry studies of n-type polymers with non-alternant fluoranthene units. *Electrochimica Acta*, **2009**, 54, 1584-1588	6.7	14
27	Controlling the morphology of nanofiber-P3HT:PCBM blends for organic bulk heterojunction solar cells. *Organic Electronics*, **2009**, 10, 1248-1251	3.5	56
26	Development of novel processable electron accepting conjugated polymers containing fluoranthene units in the main chain. *Polymer*, **2009**, 50, 5007-5015	3.9	18
25	Exploring the Dithiocarbamate Precursor Route: Observation of a Base Induced Regioregularity Excess in Poly[(2-methoxy-5-(3?,7?-dimethyloctyloxy))-1,4-phenylenevinylene] (MDMO-PPV). *Macromolecules*, **2009**, 42, 3661-3668	5.5	21
24	The Relation Between Open-Circuit Voltage and the Onset of Photocurrent Generation by Charge-Transfer Absorption in Polymer : Fullerene Bulk Heterojunction Solar Cells. *Advanced Functional Materials*, **2008**, 18, 2064-2070	15.6	468
23	Bulk heterojunction organic solar cells based on soluble poly(thienylene vinylene) derivatives. *Organic Electronics*, **2008**, 9, 740-746	3.5	53
22	Effect of temperature on the morphological and photovoltaic stability of bulk heterojunction polymer:fullerene solar cells. *Solar Energy Materials and Solar Cells*, **2008**, 92, 753-760	6.4	253
21	Low Band Gap Donor–Acceptor Conjugated Polymers toward Organic Solar Cells Applications. *Macromolecules*, **2007**, 40, 65-72	5.5	206
20	2,5-Substituted PPV-Derivatives with Different Polarities: The Effect of Side Chain Polarity on Solubility, Optical and Electronic Properties. *Macromolecular Chemistry and Physics*, **2007**, 208, 196-206	2.6	13
19	Evidence of the improvement of photovoltaic efficiency by polar molecule orientation in a new semiconducting polymer. *Solar Energy Materials and Solar Cells*, **2007**, 91, 1816-1824	6.4	6

18	Low-bandgap poly(thienylene vinylene) for organic solar cells: photophysics and photovoltaic performance **2006**, 6192, 309		1
17	Synthesis and Properties of Poly(p-fluoranthene vinylene): A Novel Conjugated Polymer with Nonalternant Repeating Units. *Macromolecules*, **2006**, 39, 2438-2440	5.5	9
16	Precursor route poly(thienylene vinylene) for organic solar cells: Photophysics and photovoltaic performance. *Solar Energy Materials and Solar Cells*, **2006**, 90, 2815-2828	6.4	42
15	Synthesis and Structure of cis-1,4-Di(1-pyrenyl)decamethylcyclohexasilane. *Organometallics*, **2003**, 22, 2249-2258	3.8	9
14	Zipping up the crushed fullereneSC60H30:C60 by fifteen-fold, consecutive intramolecular H2 losses. *Chemical Communications*, **2002**, 370-1	5.8	21
13	Syntheses of poly[(dimethyl)-co-(4,7,10,13-tetraoxatetradecylmethylsilanes)].An evaluation of the use of C8K versus Na in the preparation of polysilanes. *Macromolecular Chemistry and Physics*, **2000**, 201, 1742-1747	2.6	7
12	Non-Ionic Water-Soluble Polysilanes and Polysilynes, Chameleons in Solution. *ACS Symposium Series* , **2000**, 238-254	0.4	1
11	Nonionic Water-Soluble Polysilanes: Global Conformation in Solution and the Occurrence of Preferential Solvation. *Journal of Physical Chemistry B*, **2000**, 104, 2237-2241	3.4	14
10	Occurrence of Radical Cation Localization in Chemically Modified Poly(methylphenylsilane): Poly(methylphenyl-co-4-dimethylaminophenylmethylsilane)s and Poly(methylphenyl-co-4-bromophenylmethylsilane)s. *Chemistry of Materials*, **2000**, 12, 84-89	9.6	6
9	Band Gap Modifications in Functionalized Poly(methylphenylsilanes). *Macromolecules*, **2000**, 33, 89-96	5.5	30
8	Nonionic Water-Soluble Polysilynes. Synthesis and Properties of a Novel Class of Functionalized Materials. *Macromolecules*, **1999**, 32, 3286-3294	5.5	20
7	Comb-Branched Polymer Electrolytes Based on Poly[(4,7,10,13-tetraoxatetradecyl)methylsilane] and Lithium Perchlorate. *Macromolecules*, **1999**, 32, 8663-8665	5.5	3
6	Formation of huge cyclic oligomers in the condensation polymerization of bis(9-hydroxy-1,4,7-trioxanonyl) substituted naphthalene and benzenes with both aromatic and aliphatic bis-acid chlorides. *Journal of the Chemical Society Perkin Transactions II*, **1998**, 725-736		4
5	Water-soluble poly(4,7,10,13-tetraoxatetradecylmethylsilane):enhanced yield and improved purity via polymerization usinggraphite-potassium (C8K) as reducing agent. *Chemical Communications*, **1997**, 329-330	5.8	15
4	Unprecedented thermo- and ion-responsive behavior of a non-ionic water-soluble polysilane. *Advanced Materials*, **1997**, 9, 961-964	24	11
3	Structural, Photophysical, and Conductive Properties of n-Hexyl Substituted Hybrid PolysilyleneÐPolysilyne Networks. *Macromolecules*, **1996**, 29, 7362-7373	5.5	30
2	Poly(4,7,10-trioxaundecylmethylsilylene) and Poly(4,7,10,13-tetraoxatetradecylmethylsilylene): Nonionic Water-Soluble Polysilylenes. *Macromolecules*, **1995**, 28, 8696-8698	5.5	25
1	Electroluminescence and Chemiluminescence of Porous Silicon in Nonaqueous Solution. *Journal of the Electrochemical Society*, **1994**, 141, 1157-1161	3.9	8