

Thomas J Cleij

List of Publications by Citations

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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	The Relation Between Open-Circuit Voltage and the Onset of Photocurrent Generation by Charge-Transfer Absorption in Polymer : Fullerene Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2008 , 18, 2064-2070	15.6	468
88	Effect of temperature on the morphological and photovoltaic stability of bulk heterojunction polymer:fullerene solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 753-760	6.4	253
87	Low Band Gap Donor-Acceptor Conjugated Polymers toward Organic Solar Cells Applications. <i>Macromolecules</i> , 2007 , 40, 65-72	5.5	206
86	Strategy for Enhancing the Dielectric Constant of Organic Semiconductors Without Sacrificing Charge Carrier Mobility and Solubility. <i>Advanced Functional Materials</i> , 2015 , 25, 150-157	15.6	150
85	Recent Advances in Electrosynthesized Molecularly Imprinted Polymer Sensing Platforms for Bioanalyte Detection. <i>Sensors</i> , 2019 , 19,	3.8	98
84	Alkyl-Chain-Length-Independent Hole Mobility via Morphological Control with Poly(3-alkylthiophene) Nanofibers. <i>Advanced Functional Materials</i> , 2010 , 20, 792-802	15.6	87
83	Controlling the Morphology and Efficiency of Hybrid ZnO:Polythiophene Solar Cells Via Side Chain Functionalization. <i>Advanced Energy Materials</i> , 2011 , 1, 90-96	21.8	78
82	MIPs for commercial application in low-cost sensors and assays - An overview of the current status quo. <i>Sensors and Actuators B: Chemical</i> , 2020 , 325, 128973	8.5	63
81	Selective identification of macrophages and cancer cells based on thermal transport through surface-imprinted polymer layers. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7258-67	9.5	62
80	Controlling the morphology of nanofiber-P3HT:PCBM blends for organic bulk heterojunction solar cells. <i>Organic Electronics</i> , 2009 , 10, 1248-1251	3.5	56
79	Label-Free Detection of Escherichia coli Based on Thermal Transport through Surface Imprinted Polymers. <i>ACS Sensors</i> , 2016 , 1, 1140-1147	9.2	53
78	Bulk heterojunction organic solar cells based on soluble poly(thienylene vinylene) derivatives. <i>Organic Electronics</i> , 2008 , 9, 740-746	3.5	53
77	The heat-transfer method: a versatile low-cost, label-free, fast, and user-friendly readout platform for biosensor applications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 13309-18	9.5	50
76	Impedimetric detection of histamine in bowel fluids using synthetic receptors with pH-optimized binding characteristics. <i>Analytical Chemistry</i> , 2013 , 85, 1475-83	7.8	48
75	Electrosensitive polyacrylic acid/fibrin hydrogel facilitates cell seeding and alignment. <i>Biomacromolecules</i> , 2012 , 13, 1448-57	6.9	42
74	Precursor route poly(thienylene vinylene) for organic solar cells: Photophysics and photovoltaic performance. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 2815-2828	6.4	42
73	Thermal Detection of Cardiac Biomarkers Heart-Fatty Acid Binding Protein and ST2 Using a Molecularly Imprinted Nanoparticle-Based Multiplex Sensor Platform. <i>ACS Sensors</i> , 2019 , 4, 2838-2845	9.2	31

72	Band Gap Modifications in Functionalized Poly(methylphenylsilanes). <i>Macromolecules</i> , 2000 , 33, 89-96	5.5	30
71	Structural, Photophysical, and Conductive Properties of n-Hexyl Substituted Hybrid Polysilylene-Polysilyne Networks. <i>Macromolecules</i> , 1996 , 29, 7362-7373	5.5	30
70	Broadening the absorption of conjugated polymers by "click" functionalization with phthalocyanines. <i>Dalton Transactions</i> , 2011 , 40, 3979-88	4.3	29
69	Biomimetic Bacterial Identification Platform Based on Thermal Wave Transport Analysis (TWTA) through Surface-Imprinted Polymers. <i>ACS Infectious Diseases</i> , 2017 , 3, 388-397	5.5	27
68	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. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10316-23	9.5	27
67	Heat-transfer-method-based cell culture quality assay through cell detection by surface imprinted polymers. <i>Langmuir</i> , 2015 , 31, 2043-50	4	26
66	Kinetic and Mechanistic Study on p-Quinodimethane Formation in the Sulfinyl Precursor Route for the Polymerization of Poly(p-phenylenevinylene) (PPV). <i>Macromolecules</i> , 2010 , 43, 7424-7433	5.5	25
65	Phase behavior of PCBM blends with different conjugated polymers. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12285-92	3.6	25
64	Poly(4,7,10-trioxaundecylmethylsilylene) and Poly(4,7,10,13-tetraoxatetradecylmethylsilylene): Nonionic Water-Soluble Polysilylenes. <i>Macromolecules</i> , 1995 , 28, 8696-8698	5.5	25
63	Introducing Thermal Wave Transport Analysis (TWTA): A Thermal Technique for Dopamine Detection by Screen-Printed Electrodes Functionalized with Molecularly Imprinted Polymer (MIP) Particles. <i>Molecules</i> , 2016 , 21,	4.8	25
62	Label-Free Detection of Small Organic Molecules by Molecularly Imprinted Polymer Functionalized Thermocouples: Toward In Vivo Applications. <i>ACS Sensors</i> , 2017 , 2, 583-589	9.2	23
61	Development of multichannel quartz crystal microbalances for MIP-based biosensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 892-899	1.6	23
60	Towards water compatible MIPs for sensing in aqueous media. <i>Journal of Molecular Recognition</i> , 2012 , 25, 344-51	2.6	23
59	A three-step synthetic approach to asymmetrically functionalized 4H-cyclopenta[2,1-b:3,4-b']dithiophenes. <i>Journal of Organic Chemistry</i> , 2010 , 75, 7202-9	4.2	23
58	Opto-electrical and morphological characterization of water soluble conjugated polymers for eco-friendly hybrid solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3262-3268	6.4	22
57	Discovery of an Anionic Polymerization Mechanism for High Molecular Weight PPV Derivatives via the Sulfinyl Precursor Route. <i>Macromolecules</i> , 2011 , 44, 7610-7616	5.5	22
56	Exploring the Dithiocarbamate Precursor Route: Observation of a Base Induced Regioregularity Excess in Poly[(2-methoxy-5-(3,7-dimethyloctyloxy))-1,4-phenylenevinylene] (MDMOBPV). <i>Macromolecules</i> , 2009 , 42, 3661-3668	5.5	21
55	Zippering up the crushed fullerene SC60H30:C60 by fifteen-fold, consecutive intramolecular H2 losses. <i>Chemical Communications</i> , 2002 , 370-1	5.8	21

54	Miniaturised eight-channel impedance spectroscopy unit as sensor platform for biosensor applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1357-1363	1.6	20
53	A deeper Insight into the Dithiocarbamate Precursor Route: Synthesis of Soluble Poly(thienylene vinylene) Derivatives for Photovoltaic Applications. <i>Macromolecules</i> , 2010 , 43, 10231-10240	5.5	20
52	Nonionic Water-Soluble Polysilynes. Synthesis and Properties of a Novel Class of Functionalized Materials. <i>Macromolecules</i> , 1999 , 32, 3286-3294	5.5	20
51	Mobile Application for Impedance-Based Biomimetic Sensor Readout. <i>IEEE Sensors Journal</i> , 2013 , 13, 2659-2665	4	19
50	Synthesis and characterization of water-soluble poly(p-phenylene vinylene) derivatives via the dithiocarbamate precursor route. <i>European Polymer Journal</i> , 2011 , 47, 1827-1835	5.2	19
49	Point of Care Diagnostics in Resource-Limited Settings: A Review of the Present and Future of PoC in Its Most Needed Environment. <i>Biosensors</i> , 2020 , 10,	5.9	19
48	Development of novel processable electron accepting conjugated polymers containing fluoranthene units in the main chain. <i>Polymer</i> , 2009 , 50, 5007-5015	3.9	18
47	Surface grafted molecularly imprinted polymeric receptor layers for thermal detection of the New Psychoactive substance 2-methoxphenidine. <i>Sensors and Actuators A: Physical</i> , 2019 , 295, 586-595	3.9	15
46	Molecular imprinted polymer films on RFID tags: a first step towards disposable packaging sensors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 938-944	1.6	15
45	Water-soluble poly(4,7,10,13-tetraoxatetradecylmethylsilane):enhanced yield and improved purity via polymerization using graphite-potassium (C8K) as reducing agent. <i>Chemical Communications</i> , 1997 , 329-330	5.8	15
44	Versatile post-polymerization functionalization of poly(p-phenylene vinylene) copolymers containing carboxylic acid substituents: development of a universal method towards functional conjugated copolymers. <i>Polymer Chemistry</i> , 2010 , 1, 1313	4.9	14
43	Cyclic voltammetry studies of n-type polymers with non-alternant fluoranthene units. <i>Electrochimica Acta</i> , 2009 , 54, 1584-1588	6.7	14
42	Nonionic Water-Soluble Polysilanes: Global Conformation in Solution and the Occurrence of Preferential Solvation. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 2237-2241	3.4	14
41	Living polymerization via anionic initiation for the synthesis of well-defined PPV materials. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 242-7	4.8	13
40	Single-Shot Detection of Neurotransmitters in Whole-Blood Samples by Means of the Heat-Transfer Method in Combination with Synthetic Receptors. <i>Sensors</i> , 2017 , 17,	3.8	13
39	2,5-Substituted PPV-Derivatives with Different Polarities: The Effect of Side Chain Polarity on Solubility, Optical and Electronic Properties. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 196-206	2.6	13
38	An Efficient Acid-Induced Conversion of Dithiocarbamate Precursor Polymers into Conjugated Materials. <i>Macromolecules</i> , 2011 , 44, 711-718	5.5	11
37	Unprecedented thermo- and ion-responsive behavior of a non-ionic water-soluble polysilane. <i>Advanced Materials</i> , 1997 , 9, 961-964	24	11

36	The Liberalization of Microfluidics: Form 2 Benchtop 3D Printing as an Affordable Alternative to Established Manufacturing Methods. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900935	1.6	9
35	Detection of L-nicotine with dissipation mode quartz crystal microbalance using molecular imprinted polymers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 905-910	1.6	9
34	Synthesis and Properties of Poly(p-fluoranthene vinylene): A Novel Conjugated Polymer with Nonalternant Repeating Units. <i>Macromolecules</i> , 2006 , 39, 2438-2440	5.5	9
33	Synthesis and Structure of cis-1,4-Di(1-pyrenyl)decamethylcyclohexasilane. <i>Organometallics</i> , 2003 , 22, 2249-2258	3.8	9
32	Substrate displacement colorimetry for the detection of diarylethylamines. <i>Sensors and Actuators B: Chemical</i> , 2019 , 282, 137-144	8.5	9
31	A Novel Biomimetic Tool for Assessing Vitamin K Status Based on Molecularly Imprinted Polymers. <i>Nutrients</i> , 2018 , 10,	6.7	8
30	Electroluminescence and Chemiluminescence of Porous Silicon in Nonaqueous Solution. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 1157-1161	3.9	8
29	Imprinted Polymers as Synthetic Receptors in Sensors for Food Safety. <i>Biosensors</i> , 2021 , 11,	5.9	8
28	Syntheses of poly[(dimethyl-co-(4,7,10,13-tetraoxatetradecylmethylsilanes)].An evaluation of the use of C8K versus Na in the preparation of polysilanes. <i>Macromolecular Chemistry and Physics</i> , 2000 , 201, 1742-1747	2.6	7
27	Evidence of the improvement of photovoltaic efficiency by polar molecule orientation in a new semiconducting polymer. <i>Solar Energy Materials and Solar Cells</i> , 2007 , 91, 1816-1824	6.4	6
26	Occurrence of Radical Cation Localization in Chemically Modified Poly(methylphenylsilane): Poly(methylphenyl-co-4-dimethylaminophenylmethylsilane)s and Poly(methylphenyl-co-4-bromophenylmethylsilane)s. <i>Chemistry of Materials</i> , 2000 , 12, 84-89	9.6	6
25	Thermal Detection of Glucose in Urine Using a Molecularly Imprinted Polymer as a Recognition Element. <i>ACS Sensors</i> , 2021 ,	9.2	6
24	Optimization and characterization of a flow cell for heat-transfer-based biosensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1600758	1.6	5
23	Phosphodiester Hydrogels for Cell Scaffolding and Drug Release Applications. <i>Macromolecular Bioscience</i> , 2019 , 19, e1900090	5.5	5
22	In situ monitoring and optimization of CuAAC-mediated protein functionalization of biosurfaces. <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 992-1000	8.5	5
21	A Molecularly Imprinted Polymer-based Dye Displacement Assay for the Rapid Visual Detection of Amphetamine in Urine. <i>Molecules</i> , 2020 , 25,	4.8	5
20	Biomimetic sensing of Escherichia coli at the solid-liquid interface: From surface-imprinted polymer synthesis toward real sample sensing in food safety. <i>Microchemical Journal</i> , 2021 , 169, 106554	4.8	5
19	Biomimetic Bacterial Identification Platform Based on Thermal Transport Analysis Through Surface Imprinted Polymers: From Proof of Principle to Proof of Application. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800688	1.6	4

18	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. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1998 , 725-736		4
17	Rapid Colorimetric Screening of Elevated Phosphate in Urine: A Charge-Transfer Interaction. <i>ACS Omega</i> , 2020 , 5, 21054-21066	3.9	4
16	Colorimetric Sensing of Amoxicillin Facilitated by Molecularly Imprinted Polymers. <i>Polymers</i> , 2021 , 13,	4.5	4
15	SIP-Based Thermal Detection Platform for the Direct Detection of Bacteria Obtained from a Contaminated Surface. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1700777	1.6	3
14	Studying the Drug Delivery Kinetics of a Nanoporous Matrix Using a MIP-Based Thermal Sensing Platform. <i>Polymers</i> , 2017 , 9,	4.5	3
13	Comb-Branched Polymer Electrolytes Based on Poly[(4,7,10,13-tetraoxatetradecyl)methylsilane] and Lithium Perchlorate. <i>Macromolecules</i> , 1999 , 32, 8663-8665	5.5	3
12	Application of electrodeposited piezo-resistive polypyrrole for a pressure-sensitive bruxism sensor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1505-1509	1.6	3
11	Studying the Effect of Adhesive Layer Composition on MIP-Based Thermal Biosensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800941	1.6	2
10	An Efficient Thermal Elimination Pathway toward Phosphodiester Hydrogels via a Precursor Approach. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 1900466	2.6	2
9	Modular Science Kit as a support platform for STEM learning in primary and secondary school. <i>Journal of Chemical Education</i> , 2021 , 98, 439-444	2.4	2
8	Heat Transfer as a New Sensing Technique for the Label-Free Detection of Biomolecules. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2017 , 383-407	2	1
7	MIP-based Sensor Platforms for Detection of Analytes in Nano- and Micromolar Range 2012 , 91-124		1
6	Tetra-alkoxy substituted PPV derivatives: a new class of highly soluble liquid crystalline conjugated polymers. <i>Polymer Chemistry</i> , 2011 , 2, 1279	4.9	1
5	Synthesis and characterization of high molecular weight phthalocyanine-PPV copolymers through post-polymerization functionalization. <i>Journal of Porphyrins and Phthalocyanines</i> , 2011 , 15, 659-666	1.8	1
4	Low-bandgap poly(thienylene vinylene) for organic solar cells: photophysics and photovoltaic performance 2006 , 6192, 309		1
3	Non-Ionic Water-Soluble Polysilanes and Polysilynes, Chameleons in Solution. <i>ACS Symposium Series</i> , 2000 , 238-254	0.4	1
2	Identifying Potential Machine Learning Algorithms for the Simulation of Binding Affinities to Molecularly Imprinted Polymers. <i>Computation</i> , 2021 , 9, 103	2.2	1
1	Polyphosphate-Based Hydrogels as Drug-Loaded Wound Dressing: An In Vitro Study. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 2871-2879	4.3	0

