

Marloes M Peeters

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2600289/publications.pdf>

Version: 2024-02-01

72
papers

2,112
citations

201385

27
h-index

243296

44
g-index

74
all docs

74
docs citations

74
times ranked

2129
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Electrosynthesized Molecularly Imprinted Polymer Sensing Platforms for Bioanalyte Detection. <i>Sensors</i> , 2019, 19, 1204.	2.1	154
2	How controlled and versatile is N-carboxy anhydride (NCA) polymerization at 0 °C? Effect of temperature on homo-, block- and graft (co)polymerization. <i>Polymer Chemistry</i> , 2010, 1, 514-524.	1.9	141
3	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.	4.0	130
4	Molecularly imprinted polymer based electrochemical biosensors: Overcoming the challenges of detecting vital biomarkers and speeding up diagnosis. <i>Talanta Open</i> , 2020, 2, 100018.	1.7	92
5	Selective Enzymatic Degradation of Self-Assembled Particles from Amphiphilic Block Copolymers Obtained by the Combination of <i>N</i> -Carboxyanhydride and Nitroxide-Mediated Polymerization. <i>Biomacromolecules</i> , 2011, 12, 3761-3769.	2.6	69
6	Label-Free Detection of <i>Escherichia coli</i> Based on Thermal Transport through Surface Imprinted Polymers. <i>ACS Sensors</i> , 2016, 1, 1140-1147.	4.0	64
7	Temperature-Dependent Solubilization of the Hydrophobic Antiepileptic Drug Lamotrigine in Different Pluronic Micelles – A Spectroscopic, Heat Transfer Method, Small-Angle Neutron Scattering, Dynamic Light Scattering, and in Vitro Release Study. <i>ACS Omega</i> , 2019, 4, 11251-11262.	1.6	62
8	Thermal detection of histamine with a graphene oxide based molecularly imprinted polymer platform prepared by reversible addition-fragmentation chain transfer polymerization. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 527-535.	4.0	59
9	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, 13309-13318.	4.0	59
10	MIP-based biomimetic sensor for the electronic detection of serotonin in human blood plasma. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 602-610.	4.0	58
11	Impedimetric Detection of Histamine in Bowel Fluids Using Synthetic Receptors with pH-Optimized Binding Characteristics. <i>Analytical Chemistry</i> , 2013, 85, 1475-1483.	3.2	54
12	Development of a novel flexible polymer-based biosensor platform for the thermal detection of noradrenaline in aqueous solutions. <i>Chemical Engineering Journal</i> , 2017, 315, 459-468.	6.6	53
13	A novel thermal detection method based on molecularly imprinted nanoparticles as recognition elements. <i>Nanoscale</i> , 2018, 10, 2081-2089.	2.8	53
14	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.	4.0	50
15	Heat-transfer-based detection of l-nicotine, histamine, and serotonin using molecularly imprinted polymers as biomimetic receptors. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6453-6460.	1.9	45
16	Molecularly Imprinted Polymer Nanoparticles Enable Rapid, Reliable, and Robust Point-of-Care Thermal Detection of SARS-CoV-2. <i>ACS Sensors</i> , 2022, 7, 1122-1131.	4.0	45
17	Screen Printed Electrode Based Detection Systems for the Antibiotic Amoxicillin in Aqueous Samples Utilising Molecularly Imprinted Polymers as Synthetic Receptors. <i>Chemosensors</i> , 2020, 8, 5.	1.8	42
18	Phase transitions in lipid vesicles detected by a complementary set of methods: heat-transfer measurements, adiabatic scanning calorimetry, and dissipation-mode quartz crystal microbalance. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1377-1388.	0.8	41

#	ARTICLE	IF	CITATIONS
19	HealthCloud: A system for monitoring health status of heart patients using machine learning and cloud computing. <i>Internet of Things (Netherlands)</i> , 2022, 17, 100485.	4.9	40
20	Advances in the therapeutic delivery and applications of functionalized Pluronics: A critical review. <i>Advances in Colloid and Interface Science</i> , 2022, 299, 102563.	7.0	38
21	Molecularly imprinted polymers as synthetic receptors for the QCM-D-based detection of l-nicotine in diluted saliva and urine samples. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6479-6487.	1.9	33
22	Biomimetic Bacterial Identification Platform Based on Thermal Wave Transport Analysis (TWTA) through Surface-Imprinted Polymers. <i>ACS Infectious Diseases</i> , 2017, 3, 388-397.	1.8	33
23	Evaluating the temperature dependence of heat-transfer based detection: A case study with caffeine and Molecularly Imprinted Polymers as synthetic receptors. <i>Chemical Engineering Journal</i> , 2019, 359, 505-517.	6.6	33
24	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, 10316-10323.	4.0	32
25	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, 552.	1.7	32
26	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.	4.0	31
27	Toward the Rapid Diagnosis of Sepsis: Detecting Interleukin-6 in Blood Plasma Using Functionalized Screen-Printed Electrodes with a Thermal Detection Methodology. <i>Analytical Chemistry</i> , 2021, 93, 5931-5938.	3.2	31
28	Mobile Application for Impedance-Based Biomimetic Sensor Readout. <i>IEEE Sensors Journal</i> , 2013, 13, 2659-2665.	2.4	27
29	Phase Transitions of Binary Lipid Mixtures: A Combined Study by Adiabatic Scanning Calorimetry and Quartz Crystal Microbalance with Dissipation Monitoring. <i>Advances in Condensed Matter Physics</i> , 2015, 2015, 1-14.	0.4	27
30	Solubilization of hydrophobic drugs clozapine and oxcarbazepine in the lower and higher molecular weight pluronic mixed micelles—a physicochemical, In vitro release and In vitro anti-oxidant study. <i>Journal of Molecular Liquids</i> , 2020, 317, 113816.	2.3	27
31	Optimizing the Thermal Read-Out Technique for MIP-Based Biomimetic Sensors: Towards Nanomolar Detection Limits. <i>Sensors</i> , 2013, 13, 9148-9159.	2.1	26
32	Electrospun Nylon Fibers with Integrated Polypyrrole Molecularly Imprinted Polymers for the Detection of Glucose. <i>Analytical Chemistry</i> , 2021, 93, 13235-13241.	3.2	25
33	Melittin disruption of raft and non-raft-forming biomimetic membranes: A study by quartz crystal microbalance with dissipation monitoring. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 938-944.	2.5	24
34	Immobilization of Molecularly Imprinted Polymer Nanoparticles onto Surfaces Using Different Strategies: Evaluating the Influence of the Functionalized Interface on the Performance of a Thermal Assay for the Detection of the Cardiac Biomarker Troponin I. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27868-27879.	4.0	24
35	Array Formatting of the Heat-Transfer Method (HTM) for the Detection of Small Organic Molecules by Molecularly Imprinted Polymers. <i>Sensors</i> , 2014, 14, 11016-11030.	2.1	23
36	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.	0.8	22

#	ARTICLE	IF	CITATIONS
37	Cross-linked degradable poly(\hat{I}^2 -thioester) networks via amine-catalyzed thiol-ene click polymerization. <i>Polymer</i> , 2014, 55, 3525-3532.	1.8	22
38	Substrate displacement colorimetry for the detection of diarylethylamines. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 137-144.	4.0	19
39	Fluorescein functionalized random amino acid copolymers in the biomimetic synthesis of CaCO ₃ . <i>Soft Matter</i> , 2011, 7, 9685.	1.2	18
40	Engineering molecularly imprinted polymers (MIPs) for the selective extraction and quantification of the novel psychoactive substance (NPS) methoxphenidine and its regioisomers. <i>Analyst</i> , The, 2018, 143, 2002-2007.	1.7	17
41	Molecular imprinted polymer films on <sc>RFID</sc> tags: a first step towards disposable packaging sensors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 938-944.	0.8	16
42	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, 2701.	2.1	16
43	A Novel Biomimetic Tool for Assessing Vitamin K Status Based on Molecularly Imprinted Polymers. <i>Nutrients</i> , 2018, 10, 751.	1.7	15
44	Approaches to the Rational Design of Molecularly Imprinted Polymers Developed for the Selective Extraction or Detection of Antibiotics in Environmental and Food Samples. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100021.	0.8	15
45	Real-time analysis of microbial growth by means of the Heat-Transfer Method (HTM) using <i>Saccharomyces cerevisiae</i> as model organism. <i>Physics in Medicine</i> , 2018, 6, 1-8.	0.6	14
46	Improving the sensitivity of the heat-transfer method (HTM) for cancer cell detection with optimized sensor chips. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1320-1326.	0.8	13
47	Towards a catheter-based impedimetric sensor for the assessment of intestinal histamine levels in IBS patients. <i>Biosensors and Bioelectronics</i> , 2020, 158, 112152.	5.3	13
48	Heat-Transfer Method: A Thermal Analysis Technique for the Real-Time Monitoring of <i>Staphylococcus aureus</i> Growth in Buffered Solutions and Digestate Samples. <i>ACS Applied Bio Materials</i> , 2019, 2, 3790-3798.	2.3	11
49	Principal Component Analysis to Determine the Surface Properties That Influence the Self-Cleaning Action of Hydrophobic Plant Leaves. <i>Langmuir</i> , 2021, 37, 8177-8189.	1.6	11
50	Solid residue and by-product yields from acid-catalysed conversion of poplar wood to levulinic acid. <i>Chemical Papers</i> , 2020, 74, 1647-1661.	1.0	10
51	Synthesis of Optimized Molecularly Imprinted Polymers for the Isolation and Detection of Antidepressants via HPLC. <i>Biomimetics</i> , 2019, 4, 18.	1.5	9
52	Thermistors coated with molecularly imprinted nanoparticles for the electrical detection of peptides and proteins. <i>Analyst</i> , The, 2020, 145, 5419-5424.	1.7	9
53	Dual detection of nafcillin using a molecularly imprinted polymer-based platform coupled to thermal and fluorescence read-out. <i>Materials Advances</i> , 2021, 2, 5105-5115.	2.6	9
54	Heat transfer resistance as a tool to quantify hybridization efficiency of DNA on a nanocrystalline diamond surface. <i>Diamond and Related Materials</i> , 2014, 48, 32-36.	1.8	8

#	ARTICLE	IF	CITATIONS
55	Drawing inspiration from nature to develop anti-fouling coatings: the development of biomimetic polymer surfaces and their effect on bacterial fouling. <i>Pure and Applied Chemistry</i> , 2021, 93, 1097-1108.	0.9	8
56	Nano-molecularly imprinted polymers for serum creatinine sensing using the heat transfer method. <i>Talanta Open</i> , 2022, 5, 100087.	1.7	8
57	Electropolymerized Receptor Coatings for the Quantitative Detection of Histamine with a Catheter-Based, Diagnostic Sensor. <i>ACS Sensors</i> , 2021, 6, 100-110.	4.0	7
58	Electropolymerised molecularly imprinted polymers for the heat-transfer based detection of microorganisms: A proof-of-concept study using yeast. <i>Thermal Science and Engineering Progress</i> , 2021, 24, 100956.	1.3	7
59	Evaluating the potential of thermal readout techniques combined with molecularly imprinted polymers for the sensing of low-weight organic molecules. <i>Journal of Molecular Recognition</i> , 2017, 30, e2563.	1.1	6
60	Rapid Colorimetric Screening of Elevated Phosphate in Urine: A Charge-Transfer Interaction. <i>ACS Omega</i> , 2020, 5, 21054-21066.	1.6	6
61	Reviewing the use of chitosan and polydopamine for electrochemical sensing. <i>Current Opinion in Electrochemistry</i> , 2022, 32, 100885.	2.5	6
62	Unusual solubilization capacity of hydrophobic drug olanzapine in polysorbate micelles for improved sustained drug release. <i>Journal of Molecular Liquids</i> , 2022, 359, 119256.	2.3	6
63	Development of a Flexible MIP-Based Biosensor Platform for the Thermal Detection of Neurotransmitters. <i>MRS Advances</i> , 2018, 3, 1569-1574.	0.5	5
64	Molecularly Imprinted Polymers. , 2016, , 253-271.		2
65	Influence of design and material characteristics on 3D printed flow-cells for heat transfer-based analytical devices. <i>Mikrochimica Acta</i> , 2022, 189, 73.	2.5	2
66	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.	0.5	1
67	Integration of Catalytic Biofuel Production and Anaerobic Digestion for Biogas Production. <i>Springer Proceedings in Energy</i> , 2021, , 125-131.	0.2	0
68	Celebrating a centenary of macromolecules. <i>Pure and Applied Chemistry</i> , 2021, .	0.9	0
69	Designing Fluorescent Polymer Sensors for the Detection of Antibiotics in Wastewater. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2245-2245.	0.0	0
70	(Invited) Chemical Sensors Based on Thermal Resistance Analysis at Solid-Liquid Interfaces – Applications and Challenges. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2441-2441.	0.0	0
71	A Novel Thermal Analysis Method for the Detection of a Range of Biomedical Targets. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1882-1882.	0.0	0
72	Leveraging diversity and inclusion in the polymer sciences: the key to meeting the rapidly changing needs of our world. <i>Pure and Applied Chemistry</i> , 2021, .	0.9	0