

# Kasper Eersels

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,294  
citations

448610

19  
h-index

406436

35  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1313  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reviewing the use of chitosan and polydopamine for electrochemical sensing. <i>Current Opinion in Electrochemistry</i> , 2022, 32, 100885.	2.5	6
2	Polyphosphate-Based Hydrogels as Drug-Loaded Wound Dressing: An <i>In Vitro</i> Study. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2871-2879.	2.0	13
3	Imprinted Polydimethylsiloxane-Graphene Oxide Composite Receptor for the Biomimetic Thermal Sensing of <i>Escherichia coli</i> . <i>ACS Sensors</i> , 2022, 7, 1467-1475.	4.0	8
4	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.	1.1	6
5	Imprinted Polymers as Synthetic Receptors in Sensors for Food Safety. <i>Biosensors</i> , 2021, 11, 46.	2.3	17
6	MIP-Based Dye Displacement Assay for the Colorimetric Detection of Illicit Substances. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1640-1640.	0.0	0
7	Combined Thermal and Electrochemical Sensor Platform Employing a Novel Surface-Imprinted Polymer As Receptor for the Real Time Detection of <i>Escherichia coli</i> . <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1415-1415.	0.0	0
8	(Invited) Chemical Sensors Based on Thermal Resistance Analysis at Solid-Liquid Interfaces – Applications and Challenges. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1679-1679.	0.0	0
9	Glucose Detection Using Molecularly Imprinted Mesoporous Organosilica. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1656-1656.	0.0	0
10	Colorimetric Sensing of Amoxicillin Facilitated by Molecularly Imprinted Polymers. <i>Polymers</i> , 2021, 13, 2221.	2.0	15
11	Identifying Potential Machine Learning Algorithms for the Simulation of Binding Affinities to Molecularly Imprinted Polymers. <i>Computation</i> , 2021, 9, 103.	1.0	6
12	Biomimetic sensing of <i>Escherichia coli</i> at the solid-liquid interface: From surface-imprinted polymer synthesis toward real sample sensing in food safety. <i>Microchemical Journal</i> , 2021, 169, 106554.	2.3	25
13	Topographical Vacuum Sealing of 3D-Printed Multiplanar Microfluidic Structures. <i>Biosensors</i> , 2021, 11, 395.	2.3	4
14	Thermal Detection of Glucose in Urine Using a Molecularly Imprinted Polymer as a Recognition Element. <i>ACS Sensors</i> , 2021, 6, 4515-4525.	4.0	26
15	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, 133.	2.3	57
16	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
17	A Molecularly Imprinted Polymer-based Dye Displacement Assay for the Rapid Visual Detection of Amphetamine in Urine. <i>Molecules</i> , 2020, 25, 5222.	1.7	14
18	Rapid Colorimetric Screening of Elevated Phosphate in Urine: A Charge-Transfer Interaction. <i>ACS Omega</i> , 2020, 5, 21054-21066.	1.6	6

#	ARTICLE	IF	CITATIONS
19	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.	0.8	15
20	Thermistors coated with molecularly imprinted nanoparticles for the electrical detection of peptides and proteins. <i>Analyst, The</i> , 2020, 145, 5419-5424.	1.7	9
21	Surface grafted molecularly imprinted polymeric receptor layers for thermal detection of the New Psychoactive substance 2-methoxyphenidine. <i>Sensors and Actuators A: Physical</i> , 2019, 295, 586-595.	2.0	24
22	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
23	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.	0.8	5
24	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.	0.8	5
25	Recent Advances in Electrosynthesized Molecularly Imprinted Polymer Sensing Platforms for Bioanalyte Detection. <i>Sensors</i> , 2019, 19, 1204.	2.1	154
26	Substrate displacement colorimetry for the detection of diarylethylamines. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 137-144.	4.0	19
27	Cell detection by surface imprinted polymers SIPs: A study to unravel the recognition mechanisms. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 907-917.	4.0	41
28	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
29	A novel thermal detection method based on molecularly imprinted nanoparticles as recognition elements. <i>Nanoscale</i> , 2018, 10, 2081-2089.	2.8	53
30	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.	0.8	3
31	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
32	A Novel Biomimetic Tool for Assessing Vitamin K Status Based on Molecularly Imprinted Polymers. <i>Nutrients</i> , 2018, 10, 751.	1.7	15
33	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.	0.8	8
34	Development of an impedimetric sensor for the label-free detection of the amino acid sarcosine with molecularly imprinted polymer receptors. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 461-470.	4.0	65
35	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
36	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

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37	Anisotropic In-Situ-Coated AuNPs on Screen-Printed Carbon Surface for Enhanced Prostate-Specific Antigen Impedimetric Aptasensor. <i>Journal of Electronic Materials</i> , 2017, 46, 3542-3552.	1.0	16
38	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
39	Studying the Drug Delivery Kinetics of a Nanoporous Matrix Using a MIP-Based Thermal Sensing Platform. <i>Polymers</i> , 2017, 9, 560.	2.0	4
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, 2701.	2.1	16
41	Molecularly Imprinted Polymers. , 2016, , 253-271.		2
42	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
43	A Review on Synthetic Receptors for Bioparticle Detection Created by Surface-Imprinting Techniques—From Principles to Applications. <i>ACS Sensors</i> , 2016, 1, 1171-1187.	4.0	99
44	Heat-Transfer-Method-Based Cell Culture Quality Assay through Cell Detection by Surface Imprinted Polymers. <i>Langmuir</i> , 2015, 31, 2043-2050.	1.6	29
45	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
46	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
47	The Heat-Transfer Method: A Versatile Low-Cost, Label-Free, Fast, and User-Friendly Readout Platform for Biosensor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13309-13318.	4.0	59
48	Heat-Transfer Resistance Measurement Method (HTM)-Based Cell Detection at Trace Levels Using a Progressive Enrichment Approach with Highly Selective Cell-Binding Surface Imprints. <i>Langmuir</i> , 2014, 30, 3631-3639.	1.6	26
49	Selective Identification of Macrophages and Cancer Cells Based on Thermal Transport through Surface-Imprinted Polymer Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7258-7267.	4.0	69
50	Surface plasmon resonance-based DNA microarrays: Comparison of thiol and phosphorothioate modified oligonucleotides. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 918-925.	0.8	3
51	Electronic monitoring of chemical DNA denaturation on nanocrystalline diamond electrodes with different molarities and flow rates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 911-917.	0.8	3