

# Matthias J Mickert

## List of Publications by Year in descending order

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18  
papers

591  
citations

623734

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888059

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times ranked

569  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single Molecule Upconversion-Linked Immunosorbent Assay with Extended Dynamic Range for the Sensitive Detection of Diagnostic Biomarkers. <i>Analytical Chemistry</i> , 2017, 89, 11825-11830.	6.5	93
2	Advances in Optical Single-Molecule Detection: En Route to Supersensitive Bioaffinity Assays. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10746-10773.	13.8	93
3	Measurement of Sub-femtomolar Concentrations of Prostate-Specific Antigen through Single-Molecule Counting with an Upconversion-Linked Immunosorbent Assay. <i>Analytical Chemistry</i> , 2019, 91, 9435-9441.	6.5	62
4	Bioconjugates of photon-upconversion nanoparticles for cancer biomarker detection and imaging. <i>Nature Protocols</i> , 2022, 17, 1028-1072.	12.0	60
5	Competitive upconversion-linked immunoassay using peptide mimetics for the detection of the mycotoxin zearalenone. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112683.	10.1	36
6	Highly Sensitive Laser Scanning of Photon-Upconverting Nanoparticles on a Macroscopic Scale. <i>Analytical Chemistry</i> , 2016, 88, 1835-1841.	6.5	35
7	Click-conjugated photon-upconversion nanoparticles in an immunoassay for honeybee pathogen <i>Melissococcus plutonius</i> . <i>Nanoscale</i> , 2019, 11, 8343-8351.	5.6	30
8	Large-Scale Purification of Photon-Upconversion Nanoparticles by Gel Electrophoresis for Analogue and Digital Bioassays. <i>Analytical Chemistry</i> , 2019, 91, 1241-1246.	6.5	28
9	Versatile Bioconjugation Strategies of PEG-Modified Upconversion Nanoparticles for Bioanalytical Applications. <i>Biomacromolecules</i> , 2020, 21, 4502-4513.	5.4	28
10	Three-in-one enzyme assay based on single molecule detection in femtoliter arrays. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 7443-7452.	3.7	25
11	Surface design of photon-upconversion nanoparticles for high-contrast immunocytochemistry. <i>Nanoscale</i> , 2020, 12, 8303-8313.	5.6	24
12	Rapid single-step upconversion-linked immunosorbent assay for diclofenac. <i>Mikrochimica Acta</i> , 2017, 184, 4159-4165.	5.0	22
13	Effect of Particle Size and Surface Chemistry of Photon-Upconversion Nanoparticles on Analog and Digital Immunoassays for Cardiac Troponin. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100506.	7.6	20
14	Development of photoswitchable inhibitors for $\beta$ -galactosidase. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7430-7437.	2.8	16
15	Transition-State Ensembles Navigate the Pathways of Enzyme Catalysis. <i>Journal of Physical Chemistry B</i> , 2018, 122, 5809-5819.	2.6	10
16	Fortschritte in der optischen Einzelmoleküldetektion: Auf dem Weg zu höchstempfindlichen Bioaffinitätsassays. <i>Angewandte Chemie</i> , 2020, 132, 10836-10865.	2.0	6
17	Enhanced resolution of generator-collector studies of enzymatic structures by means of hydrodynamic scanning electrochemical microscopy. <i>Talanta</i> , 2020, 214, 120844.	5.5	3
18	Hohe Verdünnung, winzige Volumina - Einzelmolekülmethode. <i>Nachrichten Aus Der Chemie</i> , 2016, 64, 412-415.	0.0	0