

# Antonin Hlavacek

## List of Publications by Year in descending order

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29  
papers

940  
citations

489802  
18  
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docs citations

29  
times ranked

1300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioconjugates of photon-upconversion nanoparticles for cancer biomarker detection and imaging. <i>Nature Protocols</i> , 2022, 17, 1028-1072.	5.5	60
2	Thick nanoporous matrices of polystyrene nanoparticles and their potential for electrochemical biosensing. <i>Electrochimica Acta</i> , 2021, 368, 137607.	2.6	4
3	Laser-induced breakdown spectroscopy as a straightforward bioimaging tool for plant biologists; the case study for assessment of photon-upconversion nanoparticles in <i>Brassica oleracea</i> L. plant. <i>Ecotoxicology and Environmental Safety</i> , 2021, 214, 112113.	2.9	12
4	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.	3.9	20
5	Upconversion-Linked Immunoassay for the Diagnosis of Honeybee Disease American Foulbrood. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-11.	1.9	5
6	Photon-upconversion barcode for monitoring an enzymatic reaction with a fluorescence reporter in droplet microfluidics. <i>Analyst</i> , 2020, 145, 7718-7723.	1.7	4
7	Competitive upconversion-linked immunoassay using peptide mimetics for the detection of the mycotoxin zearalenone. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112683.	5.3	36
8	Surface design of photon-upconversion nanoparticles for high-contrast immunocytochemistry. <i>Nanoscale</i> , 2020, 12, 8303-8313.	2.8	24
9	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.	3.2	62
10	Photon-Upconversion Barcoding with Multiple Barcode Channels: Application for Droplet Microfluidics. <i>Analytical Chemistry</i> , 2019, 91, 12630-12635.	3.2	11
11	The effects of photon-upconversion nanoparticles on the growth of radish and duckweed: Bioaccumulation, imaging, and spectroscopic studies. <i>Chemosphere</i> , 2019, 225, 723-734.	4.2	28
12	Click-conjugated photon-upconversion nanoparticles in an immunoassay for honeybee pathogen <i>Melissococcus plutonius</i> . <i>Nanoscale</i> , 2019, 11, 8343-8351.	2.8	30
13	Large-Scale Purification of Photon-Upconversion Nanoparticles by Gel Electrophoresis for Analogue and Digital Bioassays. <i>Analytical Chemistry</i> , 2019, 91, 1241-1246.	3.2	28
14	Multi-Fractional Analysis of Molecular Diffusion in Polymer Multilayers by FRAP: A New Simulation-Based Approach. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1323-1333.	1.2	17
15	Prussian Blue Nanoparticles as a Catalytic Label in a Sandwich Nanozyme-Linked Immunosorbent Assay. <i>Analytical Chemistry</i> , 2018, 90, 2348-2354.	3.2	103
16	Biosensing based on electrochemical impedance spectroscopy: Influence of the often-ignored molecular charge. <i>Electrochemistry Communications</i> , 2018, 93, 183-186.	2.3	18
17	Upconversion nanoparticle bioconjugates characterized by capillary electrophoresis. <i>Electrophoresis</i> , 2018, 39, 2246-2252.	1.3	2
18	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.	3.2	93

#	ARTICLE	IF	CITATIONS
19	Atomic force spectroscopic and SPR kinetic analysis of long circular and short ssDNA molecules interacting with single-stranded DNA-binding protein. Monatshefte für Chemie, 2017, 148, 2011-2018.	0.9	1
20	Rapid single-step upconversion-linked immunosorbent assay for diclofenac. Mikrochimica Acta, 2017, 184, 4159-4165.	2.5	22
21	Preparation and Characterisation of Highly Stable Iron Oxide Nanoparticles for Magnetic Resonance Imaging. Journal of Nanomaterials, 2017, 2017, 1-8.	1.5	22
22	Competitive Upconversion-Linked Immunosorbent Assay for the Sensitive Detection of Diclofenac. Analytical Chemistry, 2016, 88, 6011-6017.	3.2	76
23	Catalytic nanocrystalline coordination polymers as an efficient peroxidase mimic for labeling and optical immunoassays. Mikrochimica Acta, 2016, 183, 651-658.	2.5	35
24	Highly Sensitive Laser Scanning of Photon-Upconverting Nanoparticles on a Macroscopic Scale. Analytical Chemistry, 2016, 88, 1835-1841.	3.2	35
25	Electrophoretic Characterization and Purification of Silica-Coated Photon-Upconverting Nanoparticles and Their Bioconjugates. ACS Applied Materials & Interfaces, 2014, 6, 6930-6935.	4.0	44
26	Biotinylation of quantum dots for application in fluoroimmunoassays with biotin-avidin amplification. Mikrochimica Acta, 2012, 176, 287-293.	2.5	15
27	Isotachophoretic purification of nanoparticles: Tuning optical properties of quantum dots. Electrophoresis, 2012, 33, 1427-1430.	1.3	13
28	Conjugation of 5(6)-carboxyfluorescein and 5(6)-carboxynaphthofluorescein with bovine serum albumin and their immobilization for optical pH sensing. Sensors and Actuators B: Chemical, 2012, 161, 93-99.	4.0	21
29	State of the Art in the Field of Electronic and Bioelectronic Tongues – Towards the Analysis of Wines. Electroanalysis, 2009, 21, 2509-2520.	1.5	99