

# Antonin Hlavacek

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29  
papers

641  
citations

14  
h-index

25  
g-index

29  
ext. papers

807  
ext. citations

6.8  
avg, IF

4.05  
L-index

#	Paper	IF	Citations
29	Bioconjugates of photon-upconversion nanoparticles for cancer biomarker detection and imaging.. <i>Nature Protocols</i> , <b>2022</b> ,	18.8	5
28	Laser-induced breakdown spectroscopy as a straightforward bioimaging tool for plant biologists; the case study for assessment of photon-upconversion nanoparticles in Brassica oleracea L. plant. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 214, 112113	7	2
27	Thick nanoporous matrices of polystyrene nanoparticles and their potential for electrochemical biosensing. <i>Electrochimica Acta</i> , <b>2021</b> , 368, 137607	6.7	2
26	Effect of Particle Size and Surface Chemistry of Photon-Upconversion Nanoparticles on Analog and Digital Immunoassays for Cardiac Troponin. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100506	10.1	6
25	Upconversion-Linked Immunoassay for the Diagnosis of Honeybee Disease American Foulbrood. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2021</b> , 27, 1-11	3.8	3
24	Surface design of photon-upconversion nanoparticles for high-contrast immunocytochemistry. <i>Nanoscale</i> , <b>2020</b> , 12, 8303-8313	7.7	12
23	Photon-upconversion barcode for monitoring an enzymatic reaction with a fluorescence reporter in droplet microfluidics. <i>Analyst</i> , <b>2020</b> , 145, 7718-7723	5	1
22	Competitive upconversion-linked immunoassay using peptide mimetics for the detection of the mycotoxin zearalenone. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 170, 112683	11.8	20
21	Photon-Upconversion Barcoding with Multiple Barcode Channels: Application for Droplet Microfluidics. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 12630-12635	7.8	6
20	The effects of photon-upconversion nanoparticles on the growth of radish and duckweed: Bioaccumulation, imaging, and spectroscopic studies. <i>Chemosphere</i> , <b>2019</b> , 225, 723-734	8.4	14
19	Click-conjugated photon-upconversion nanoparticles in an immunoassay for honeybee pathogen <i>Melissococcus plutonius</i> . <i>Nanoscale</i> , <b>2019</b> , 11, 8343-8351	7.7	19
18	Measurement of Sub-femtomolar Concentrations of Prostate-Specific Antigen through Single-Molecule Counting with an Upconversion-Linked Immunosorbent Assay. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 9435-9441	7.8	35
17	Large-Scale Purification of Photon-Upconversion Nanoparticles by Gel Electrophoresis for Analogue and Digital Bioassays. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1241-1246	7.8	24
16	Multi-Fractional Analysis of Molecular Diffusion in Polymer Multilayers by FRAP: A New Simulation-Based Approach. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 1323-1333	3.4	13
15	Prussian Blue Nanoparticles as a Catalytic Label in a Sandwich Nanozyme-Linked Immunosorbent Assay. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 2348-2354	7.8	79
14	Biosensing based on electrochemical impedance spectroscopy: Influence of the often-ignored molecular charge. <i>Electrochemistry Communications</i> , <b>2018</b> , 93, 183-186	5.1	14
13	Upconversion nanoparticle bioconjugates characterized by capillary electrophoresis. <i>Electrophoresis</i> , <b>2018</b> , 39, 2246-2252	3.6	1

12	Single Molecule Upconversion-Linked Immunosorbent Assay with Extended Dynamic Range for the Sensitive Detection of Diagnostic Biomarkers. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 11825-11830	7.8	70
11	Preparation and Characterisation of Highly Stable Iron Oxide Nanoparticles for Magnetic Resonance Imaging. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-8	3.2	16
10	Atomic force spectroscopic and SPR kinetic analysis of long circular and short ssDNA molecules interacting with single-stranded DNA-binding protein. <i>Monatshefte Für Chemie</i> , <b>2017</b> , 148, 2011-2018	1.4	1
9	Rapid single-step upconversion-linked immunosorbent assay for diclofenac. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 4159-4165	5.8	17
8	Catalytic nanocrystalline coordination polymers as an efficient peroxidase mimic for labeling and optical immunoassays. <i>Mikrochimica Acta</i> , <b>2016</b> , 183, 651-658	5.8	32
7	Highly Sensitive Laser Scanning of Photon-Upconverting Nanoparticles on a Macroscopic Scale. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 1835-41	7.8	26
6	Competitive Upconversion-Linked Immunosorbent Assay for the Sensitive Detection of Diclofenac. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 6011-7	7.8	58
5	Electrophoretic characterization and purification of silica-coated photon-upconverting nanoparticles and their bioconjugates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 6930-5	9.5	33
4	Conjugation of 5(6)-carboxyfluorescein and 5(6)-carboxynaphthofluorescein with bovine serum albumin and their immobilization for optical pH sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 161, 93-99	8.5	12
3	Biotinylation of quantum dots for application in fluoroimmunoassays with biotin-avidin amplification. <i>Mikrochimica Acta</i> , <b>2012</b> , 176, 287-293	5.8	14
2	Isotachophoretic purification of nanoparticles: tuning optical properties of quantum dots. <i>Electrophoresis</i> , <b>2012</b> , 33, 1427-30	3.6	12
1	State of the Art in the Field of Electronic and Bioelectronic Tongues ¶Towards the Analysis of Wines. <i>Electroanalysis</i> , <b>2009</b> , 21, 2509-2520	3	94