

Tero Soukka

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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.

61
papers

2,120
citations

25
h-index

45
g-index

62
ext. papers

2,356
ext. citations

6
avg, IF

4.76
L-index

#	Paper	IF	Citations
61	Europium Nanoparticles and Time-resolved Fluorescence for Ultrasensitive Detection of Prostate-specific Antigen. <i>Clinical Chemistry</i> , 2001 , 47, 561-568	5.5	245
60	Quenching of the upconversion luminescence of NaYF ₄ :Yb ³⁺ ,Er ³⁺ and NaYF ₄ :Yb ³⁺ ,Tm ³⁺ nanophosphors by water: the role of the sensitizer Yb ³⁺ in non-radiative relaxation. <i>Nanoscale</i> , 2015 , 7, 11746-57	7.7	207
59	Utilization of kinetically enhanced monovalent binding affinity by immunoassays based on multivalent nanoparticle-antibody bioconjugates. <i>Analytical Chemistry</i> , 2001 , 73, 2254-60	7.8	162
58	Supersensitive Time-resolved Immunofluorometric Assay of Free Prostate-specific Antigen with Nanoparticle Label Technology. <i>Clinical Chemistry</i> , 2001 , 47, 1269-1278	5.5	119
57	Photochemical characterization of up-converting inorganic lanthanide phosphors as potential labels. <i>Journal of Fluorescence</i> , 2005 , 15, 513-28	2.4	114
56	Highly sensitive immunoassay of free prostate-specific antigen in serum using europium(III) nanoparticle label technology. <i>Clinica Chimica Acta</i> , 2003 , 328, 45-58	6.2	91
55	Photon upconversion in homogeneous fluorescence-based bioanalytical assays. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1130, 188-200	6.5	89
54	Ratiometric Sensing and Imaging of Intracellular pH Using Polyethylenimine-Coated Photon Upconversion Nanoprobes. <i>Analytical Chemistry</i> , 2017 , 89, 1501-1508	7.8	79
53	Integrated Acoustic Separation, Enrichment, and Microchip Polymerase Chain Reaction Detection of Bacteria from Blood for Rapid Sepsis Diagnostics. <i>Analytical Chemistry</i> , 2016 , 88, 9403-9411	7.8	79
52	Upconverting nanoparticle to quantum dot FRET for homogeneous double-nano biosensors. <i>RSC Advances</i> , 2015 , 5, 13270-13277	3.7	76
51	Zeptomole detection sensitivity of prostate-specific antigen in a rapid microtitre plate assay using time-resolved fluorescence. <i>Luminescence</i> , 2000 , 15, 351-5	2.5	69
50	Disintegration of Hexagonal NaYF ₄ :Yb ³⁺ ,Er ³⁺ Upconverting Nanoparticles in Aqueous Media: The Role of Fluoride in Solubility Equilibrium. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 656-665	3.8	58
49	Quantitative multianalyte microarray immunoassay utilizing upconverting phosphor technology. <i>Analytical Chemistry</i> , 2012 , 84, 8628-34	7.8	48
48	Photon Upconversion in a Molecular Lanthanide Complex in Anhydrous Solution at Room Temperature. <i>ACS Photonics</i> , 2014 , 1, 394-397	6.3	43
47	Reduction of syndecan-1 expression is associated with dysplastic oral epithelium. <i>Journal of Oral Pathology and Medicine</i> , 2000 , 29, 308-13	3.3	41
46	Decrease in Luminescence Lifetime Indicating Nonradiative Energy Transfer from Upconverting Phosphors to Fluorescent Acceptors in Aqueous Suspensions. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17736-17742	3.8	34
45	Environmental and Excitation Power Effects on the Ratiometric Upconversion Luminescence Based Temperature Sensing Using Nanocrystalline NaYF ₄ :Yb ³⁺ ,Er ³⁺ . <i>ChemPhysChem</i> , 2017 , 18, 692-701	3.2	32

44	Upconverting nanophosphors as reporters in a highly sensitive heterogeneous immunoassay for cardiac troponin I. <i>Analytica Chimica Acta</i> , 2016 , 925, 82-7	6.6	32
43	Fluorescence-Quenching-Based Enzyme-Activity Assay by Using Photon Upconversion. <i>Angewandte Chemie</i> , 2008 , 120, 3871-3873	3.6	32
42	Explaining the influence of dopant concentration and excitation power density on the luminescence and brightness of $\text{NaYF}_4:\text{Yb}^{3+},\text{Er}^{3+}$ nanoparticles: Measurements and simulations. <i>Nano Research</i> , 2019 , 12, 1871-1879	10	31
41	Spectrally and Spatially Multiplexed Serological Array-in-Well Assay Utilizing Two-Color Upconversion Luminescence Imaging. <i>Analytical Chemistry</i> , 2016 , 88, 4470-7	7.8	29
40	Homogeneous assay for whole blood folate using photon upconversion. <i>Analytical Chemistry</i> , 2015 , 87, 1782-8	7.8	28
39	Environmental Impact on the Excitation Path of the Red Upconversion Emission of Nanocrystalline $\text{NaYF}_4:\text{Yb}^{3+},\text{Er}^{3+}$. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 6924-6929	3.8	26
38	Highly Sensitive Laser Scanning of Photon-Upconverting Nanoparticles on a Macroscopic Scale. <i>Analytical Chemistry</i> , 2016 , 88, 1835-41	7.8	26
37	Effects of blood sample anticoagulants on lateral flow assays using luminescent photon-upconverting and $\text{Eu}(\text{III})$ nanoparticle reporters. <i>Analytical Biochemistry</i> , 2016 , 492, 13-20	3.1	25
36	Large-Scale Purification of Photon-Upconversion Nanoparticles by Gel Electrophoresis for Analogue and Digital Bioassays. <i>Analytical Chemistry</i> , 2019 , 91, 1241-1246	7.8	24
35	Enhancement of blue upconversion luminescence in hexagonal $\text{NaYF}_4:\text{Yb},\text{Tm}$ by using K and Sc ions. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	23
34	Multiple sized europium(III) chelate-dyed polystyrene particles as donors in FRET - an application for sensitive protein quantification utilizing competitive adsorption. <i>Analyst, The</i> , 2009 , 134, 980-6	5	23
33	Long-Lifetime Luminescent Europium(III) Complex as an Acceptor in an Upconversion Resonance Energy Transfer Based Homogeneous Assay. <i>Analytical Chemistry</i> , 2016 , 88, 653-8	7.8	22
32	Versatile Synthetic Strategy for Coating Upconverting Nanoparticles with Polymer Shells through Localized Photopolymerization by Using the Particles as Internal Light Sources. <i>Angewandte Chemie</i> , 2014 , 126, 9065-9069	3.6	17
31	Intense UV upconversion through highly sensitized $\text{NaRF}_4:\text{Tm}(\text{R}:\text{Y},\text{Yb})$ crystals. <i>RSC Advances</i> , 2015 , 5, 35858-35865	3.7	16
30	Real-time wash-free detection of unlabeled PNA-DNA hybridization using discrete FET sensor. <i>Scientific Reports</i> , 2017 , 7, 15734	4.9	16
29	Miniature Single-Particle Immunoassay for Prostate-specific Antigen in Serum Using Recombinant Fab Fragments. <i>Clinical Chemistry</i> , 2000 , 46, 1755-1761	5.5	16
28	Improving the sensitivity of immunoassays by reducing non-specific binding of poly(acrylic acid) coated upconverting nanoparticles by adding free poly(acrylic acid). <i>Mikrochimica Acta</i> , 2018 , 185, 220	5.8	15
27	Lateral flow immunoassay with upconverting nanoparticle-based detection for indirect measurement of interferon response by the level of MxA . <i>Journal of Medical Virology</i> , 2017 , 89, 598-605	19.7	14

26	Photochemical Ligation to Ultrasensitive DNA Detection with Upconverting Nanoparticles. <i>Analytical Chemistry</i> , 2018 , 90, 13385-13392	7.8	12
25	Upconversion Cross-Correlation Spectroscopy of a Sandwich Immunoassay. <i>Chemistry - A European Journal</i> , 2018 , 24, 9229-9233	4.8	11
24	Serological Array-in-Well Multiplex Assay Reveals a High Rate of Respiratory Virus Infections and Reinfections in Young Children. <i>MSphere</i> , 2019 , 4,	5	11
23	Antibody-free lanthanide-based fluorescent probe for determination of protein tyrosine kinase and phosphatase activities. <i>Mikrochimica Acta</i> , 2011 , 172, 25-29	5.8	9
22	Lanthanide-Doped Nanoparticles for Stimulated Emission Depletion Nanoscopy. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5817-5823	5.6	8
21	Array-in-well serodiagnostic assay utilizing upconverting phosphor label technology. <i>Journal of Virological Methods</i> , 2015 , 222, 224-30	2.6	7
20	Thulium- and Erbium-Doped Nanoparticles with Poly(acrylic acid) Coating for Upconversion Cross-Correlation Spectroscopy-based Sandwich Immunoassays in Plasma. <i>ACS Applied Nano Materials</i> , 2021 , 4, 432-440	5.6	7
19	Emergency neck MRI: feasibility and diagnostic accuracy in cases of neck infection. <i>Acta Radiologica</i> , 2021 , 62, 735-742	2	6
18	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	10.1	6
17	Pandemic influenza A(H1N1pdm09) vaccine induced high levels of influenza-specific IgG and IgM antibodies as analyzed by enzyme immunoassay and dual-mode multiplex microarray immunoassay methods. <i>Vaccine</i> , 2020 , 38, 1933-1942	4.1	5
16	High gradient magnetic separation of upconverting lanthanide nanophosphors based on their intrinsic paramagnetism. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	5
15	Nanoparticle-aided glycovariant assays to bridge biomarker performance and ctDNA results. <i>Molecular Aspects of Medicine</i> , 2020 , 72, 100831	16.7	5
14	Simple and inexpensive immunoassay-based diagnostic tests. <i>Bioanalytical Reviews</i> , 2011 , 3, 27-40	1	4
13	Precise construction of oligonucleotide-Fab fragment conjugate for homogeneous immunoassay using HaloTag technology. <i>Analytical Biochemistry</i> , 2015 , 472, 37-44	3.1	3
12	Five-, Four- and Three-Dentate Europium Chelates for Anion Sensing and Their Applicability to Enzymatic Dephosphorylation Reactions. <i>ChemistrySelect</i> , 2018 , 3, 12430-12439	1.8	3
11	Engineering the Compositional Architecture of Core-Shell Upconverting Lanthanide-Doped Nanoparticles for Optimal Luminescent Donor in Resonance Energy Transfer: The Effects of Energy Migration and Storage.. <i>Small</i> , 2022 , e2200464	11	3
10	Spacer length, label moiety interchange and probe pair orientation in a homogeneous solid-phase hybridization assay utilizing lanthanide chelate complementation. <i>Analytical Methods</i> , 2014 , 6, 5360-5368	3.2	2
9	Closed-tube human leukocyte antigen DQA1*05 genotyping assay based on switchable lanthanide luminescence probes. <i>Analytical Biochemistry</i> , 2014 , 465, 6-11	3.1	2

8	Switchable lanthanide luminescent binary probes in efficient single nucleotide mismatch discrimination. <i>Sensors and Actuators B: Chemical</i> , 2015 , 211, 297-302	8.5	2
7	Supersensitive photon upconversion based immunoassay for detection of cardiac troponin I in human plasma. <i>Clinica Chimica Acta</i> , 2021 , 523, 380-385	6.2	2
6	Development of a Patient-Centered Functional Outcomes Questionnaire in Head and Neck Cancer. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2020 , 146, 437-443	3.9	1
5	Frequency Encoding of Upconversion Nanoparticle Emission for Multiplexed Imaging of Spectrally and Spatially Overlapping Lanthanide Ions. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19399-19405	16.4	1
4	Lanthanide-based bulky counterions against aggregation-caused quenching of dyes in fluorescent polymeric nanoparticles. <i>Aggregate</i> , e130	22.9	1
3	Clinical and prognostic significance of emergency MRI findings in neck infections. <i>European Radiology</i> , 2021 , 1	8	1
2	Magnetic resonance imaging findings in pediatric neck infections-a comparison with adult patients.. <i>Pediatric Radiology</i> , 2022 , 1	2.8	1
1	Complement C1q in plasma induces nonspecific binding of poly(acrylic acid)-coated upconverting nanoparticle antibody conjugates.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1	4.4	