

# Norbert Danz

## List of Publications by Year in descending order

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Version: 2024-02-01

98  
papers

2,189  
citations

257101

24  
h-index

233125

45  
g-index

99  
all docs

99  
docs citations

99  
times ranked

1908  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced fluorescence detection of miRNAs using one-dimensional photonic crystal-based biochips. , 2022, , .		0
2	Spectral analysis of organic LED emittersâ€™ orientation in thin layers by resonant emission on dielectric stacks. Optics Express, 2021, 29, 6608.	1.7	2
3	Optical multiplexed bioassays on photonic crystals for breast cancer biomarker detection. EPJ Web of Conferences, 2021, 255, 13003.	0.1	0
4	Enhanced Fluorescence Detection of Interleukin 10 by Means of 1D Photonic Crystals. Crystals, 2021, 11, 1517.	1.0	8
5	Bioassay engineering: a combined label-free and fluorescence approach to optimize HER2 detection in complex biological media. Analytical and Bioanalytical Chemistry, 2020, 412, 3509-3517.	1.9	9
6	Towards an ultrathin multi-aperture microscope. , 2020, , .		1
7	Anisotropic Fluorescence Emission and Photobleaching at the Surface of One-Dimensional Photonic Crystals Sustaining Bloch Surface Waves. II. Experiments. Journal of Physical Chemistry C, 2019, 123, 21176-21184.	1.5	14
8	Cavitation bubble wall pressure measurement by an electromagnetic surface wave enhanced pump-probe configuration. Applied Physics Letters, 2019, 114, .	1.5	6
9	Miniature Integrated Spectrometer Array. , 2019, , .		0
10	Thin Multi-Aperture Microscope. , 2019, , .		0
11	Photobleaching at the Surface of 1D-photonic Crystal Biochips. , 2019, , .		0
12	Miniature integrated micro-spectrometer array for snap shot multispectral sensing. Optics Express, 2019, 27, 5719.	1.7	16
13	Label-free and fluorescence photonic crystal biochips for early cancer biomarker detection. , 2019, , .		0
14	Study of fluid dynamics at the boundary wall of a microchannel by Bloch surface waves. Optics Letters, 2019, 44, 1932.	1.7	1
15	Hybrid inorganic/organic photonic crystal biochips for cancer biomarkers detection. Optics and Laser Technology, 2018, 102, 227-232.	2.2	8
16	Bloch surface wave label-free and fluorescence platform for the detection of VEGF biomarker in biological matrices. Sensors and Actuators B: Chemical, 2018, 255, 2143-2150.	4.0	25
17	Bloch Surface Wave Based Biosensing. , 2018, , .		1
18	Real-Time Study of the Adsorption and Grafting Process of Biomolecules by Means of Bloch Surface Wave Biosensors. ACS Applied Materials & Interfaces, 2018, 10, 33611-33618.	4.0	20

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19	Label-Free Monitoring of Human IgG/Anti-IgG Recognition Using Bloch Surface Waves on 1D Photonic Crystals. <i>Biosensors</i> , 2018, 8, 71.	2.3	6
20	Effects of Reabsorption due to Surface Concentration in Highly Resonant Photonic Crystal Fluorescence Biosensors. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26281-26287.	1.5	9
21	Bloch surface wave enhanced biosensor for the direct detection of Angiopoietin-2 tumor biomarker in human plasma. <i>Biomedical Optics Express</i> , 2018, 9, 529.	1.5	19
22	Active Light Emission Control via Tunable Hybrid Epsilon-Near-Zero and Surface-Plasmon-Polariton Mode. , 2018, , .		0
23	Effect of matrix anisotropy on the apparent emitter orientation in Organic LED. , 2018, , .		0
24	Combined label-free/fluorescence platform based on Bloch surface waves biochips for cancer biomarker detection. , 2018, , .		1
25	Mapping metabolites from rough terrain: laser ablation electrospray ionization on non-flat samples. <i>RSC Advances</i> , 2017, 7, 9045-9050.	1.7	28
26	Emission from outside of the emission layer in state-of-the-art phosphorescent organic light-emitting diodes. <i>Organic Electronics</i> , 2017, 44, 115-119.	1.4	8
27	Detection of soluble ERBB2 in breast cancer cell lysates using a combined label-free/fluorescence platform based on Bloch surface waves. <i>Biosensors and Bioelectronics</i> , 2017, 92, 125-130.	5.3	41
28	A novel technique based on Bloch surface waves sustained by one-dimensional photonic crystals to probe mass transport in a microfluidic channel. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 532-539.	4.0	11
29	Plasmonic Purcell effect reveals obliquely ordered phosphorescent emitters in Organic LEDs. <i>Scientific Reports</i> , 2017, 7, 1826.	1.6	9
30	Ultrasensitive SPR detection of miRNAâ€93 using antibodyâ€enhanced and enzymatic signal amplification. <i>Engineering in Life Sciences</i> , 2017, 17, 1264-1270.	2.0	8
31	Multilayer coatings for Bloch surface wave optical biosensors. <i>Surface and Coatings Technology</i> , 2017, 314, 79-84.	2.2	37
32	Bloch Surface Waves Biosensors for High Sensitivity Detection of Soluble ERBB2 in a Complex Biological Environment. <i>Biosensors</i> , 2017, 7, 33.	2.3	10
33	Design rules for combined label-free and fluorescence Bloch surface wave biosensors. <i>Optics Letters</i> , 2017, 42, 2798.	1.7	23
34	Detection of miRNA using a surface plasmon resonance biosensor and antibody amplification. <i>Current Directions in Biomedical Engineering</i> , 2016, 2, 135-138.	0.2	12
35	Label-free and fluorescence biosensing platform using one dimensional photonic crystal chips. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
36	Effect of thickness disorder on the performance of photonic crystal surface wave sensors. <i>Optics Express</i> , 2016, 24, 7728.	1.7	26

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37	Optical Sensing with All-Dielectric Photonic Crystals. , 2016, , .		0
38	Leaky waveguides for low $\bar{Q}_i$ -measurement: From structure design to loss evaluation. Proceedings of SPIE, 2016, , .	0.8	2
39	Fluctuating Emission Dipole Moments of Aligned Phosphors in Organic Light-Emitting Diodes. , 2016, , .		0
40	Angularly resolved ellipsometric optical biosensing by means of Bloch surface waves. Analytical and Bioanalytical Chemistry, 2015, 407, 3965-3974.	1.9	25
41	Phase-sensitive Bloch surface wave biosensors. , 2015, , .		0
42	Biosensing platform combining label-free and labelled analysis using Bloch surface waves. , 2015, , .		6
43	Label-Free Detection of Tumor Angiogenesis Biomarker Angiopoietin 2 Using Bloch Surface Waves on One Dimensional Photonic Crystals. Journal of Lightwave Technology, 2015, 33, 3385-3393.	2.7	26
44	Limit of detection comparison for surface wave biosensors. Proceedings of SPIE, 2014, , .	0.8	2
45	Exploiting the phase properties of Bloch surface waves on photonic crystals for efficient optical sensing. Proceedings of SPIE, 2014, , .	0.8	1
46	Optimization of angularly resolved Bloch surface wave biosensors. Optics Express, 2014, 22, 23202.	1.7	55
47	Combining label-free and fluorescence operation of Bloch surface wave optical sensors. Optics Letters, 2014, 39, 2947.	1.7	63
48	Bloch Surface Waves on Dielectric Photonic Crystals for Biological Sensing. Lecture Notes in Electrical Engineering, 2014, , 107-111.	0.3	0
49	Extracting the emitter orientation in organic light-emitting diodes from external quantum efficiency measurements. Applied Physics Letters, 2014, 105, 043302.	1.5	11
50	OLED emission zone measurement with high accuracy. Proceedings of SPIE, 2013, , .	0.8	3
51	Comprehensive efficiency analysis of organic light-emitting diodes featuring emitter orientation and triplet-to-singlet up-conversion. Applied Physics Letters, 2013, 103, .	1.5	11
52	Automated substance testing for lab-on-chip devices. BMC Proceedings, 2013, 7, .	1.8	0
53	Optical characterisation of OLED emitters from radiation pattern analyses. , 2013, , 319-359.		1
54	â€Phytochipâ€™: On-chip detection of phytopathogenic RNA viruses by a new surface plasmon resonance platform. Journal of Virological Methods, 2013, 189, 80-86.	1.0	19

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55	A full ellipsometric approach to optical sensing with Bloch surface waves on photonic crystals. Optics Express, 2013, 21, 23331.	1.7	79
56	Probing losses of dielectric multilayers by means of Bloch surface waves. Optics Letters, 2013, 38, 616.	1.7	37
57	A Fluorescent One-Dimensional Photonic Crystal for Label-Free Biosensing Based on Bloch Surface Waves. Sensors, 2013, 13, 2011-2022.	2.1	56
58	Improving the sensitivity of optical biosensors by means of Bloch surface waves. Biomedizinische Technik, 2012, 57, .	0.9	17
59	Non-isotropic emitter orientation and its implications for efficiency analysis of organic light-emitting diodes. Proceedings of SPIE, 2012, , .	0.8	9
60	Hydrogenated amorphous silicon nitride photonic crystals for improved-performance surface electromagnetic wave biosensors. Biomedical Optics Express, 2012, 3, 2405.	1.5	22
61	Micro optical pattern shaping for tailored light emission from Organic LEDs. Optics Express, 2012, 20, 12682.	1.7	4
62	Detection of sub-10Ånm emission profile features in organic light-emitting diodes using destructive interference. Optics Letters, 2012, 37, 4134.	1.7	12
63	Automated universal chip platform for fluorescence based cellular assays. Biomedizinische Technik, 2012, 57, .	0.9	5
64	Degradation induced decrease of the radiative quantum efficiency in organic light-emitting diodes. Applied Physics Letters, 2012, 101, .	1.5	13
65	Direct comparison of the performance of Bloch surface wave and surface plasmon polariton sensors. Sensors and Actuators B: Chemical, 2012, 174, 292-298.	4.0	218
66	Approaches for Tailoring Organic LED Emission Patterns by Microoptics Arrays. , 2012, , .		0
67	In situ measurement of spectrum, emission zone, and dipole emitter orientation in OLEDs. Proceedings of SPIE, 2011, , .	0.8	4
68	Optical Amplification of Propagating Surface Plasmon Polaritons. , 2011, , .		1
69	Oriented phosphorescent emitters boost OLED efficiency. Organic Electronics, 2011, 12, 1663-1668.	1.4	165
70	Surface plasmon resonance platform technology for multiâ€parameter analyses on polymer chips. Engineering in Life Sciences, 2011, 11, 566-572.	2.0	41
71	A compact and rapid aptasensor platform based on surface plasmon resonance. Engineering in Life Sciences, 2011, 11, 573-579.	2.0	20
72	Accessing OLED emitter properties by radiation pattern analyses. Organic Electronics, 2011, 12, 83-91.	1.4	38

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73	Evidence for non-isotropic emitter orientation in a red phosphorescent organic light-emitting diode and its implications for determining the emitter's radiative quantum efficiency. Applied Physics Letters, 2011, 99, .	1.5	97
74	Comprehensive efficiency analysis of organic light-emitting devices. Journal of Photonics for Energy, 2011, 1, 011006.	0.8	22
75	Micro-optical beam-shaper for tailoring light emission from OLEDs. , 2010, , .		1
76	DNA microarrays for hybridization detection by surface plasmon resonance spectroscopy. Biosensors and Bioelectronics, 2010, 26, 1543-1547.	5.3	25
77	Orientation of emissive dipoles in OLEDs: Quantitative in situ analysis. Organic Electronics, 2010, 11, 1039-1046.	1.4	124
78	Net optical gain in a plasmonic waveguide embedded in a fluorescent polymer. Nature Photonics, 2010, 4, 457-461.	15.6	215
79	Measuring the dipole orientation in OLEDs. , 2010, , .		2
80	Measuring the internal luminescence quantum efficiency of OLED emitter materials in electrical operation. Proceedings of SPIE, 2010, , .	0.8	3
81	Microsensor for Cell Force Measurement. Sensor Letters, 2010, 8, 736-743.	0.4	0
82	A novel platform technology for the detection of genetic variations by surface plasmon resonance. , 2009, , .		8
83	Thickness dependence of surface plasmon polariton dispersion in transparent conducting oxide films at 155 nm. Optics Letters, 2009, 34, 839.	1.7	117
84	Dispersion-model-free determination of optical constants: application to materials for organic thin film devices. Applied Optics, 2009, 48, 1507.	2.1	21
85	In situ measurement of the internal luminescence quantum efficiency in organic light-emitting diodes. Applied Physics Letters, 2009, 95, 263306.	1.5	19
86	Measuring the profile of the emission zone in polymeric organic light-emitting diodes. Applied Physics Letters, 2009, 94, 263301.	1.5	37
87	Intrinsic OLED emitter properties and their effect on device performance. Proceedings of SPIE, 2008, , .	0.8	5
88	Micro- and Nano-Optical Modeling of Organic LED. , 2008, , .		0
89	OLED design: combined micro-and nanophotonics modeling, and routes to a complex optimization algorithm. Proceedings of SPIE, 2007, , .	0.8	3
90	Light extraction from OLEDs: the waveguide perspective. , 2007, , .		2

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91	Micro-cavity organic light emitting diodes for biochip applications. Journal of Non-Crystalline Solids, 2006, 352, 2476-2479.	1.5	6
92	Parallel SPR diagnostic system. , 2004, 5327, 74.		0
93	Dipole lifetime in stratified media: erratum. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1788.	0.9	1
94	Luminescence of UV thin films. , 2003, , .		0
95	Fluorescence lifetimes of molecular dye ensembles near interfaces. Physical Review A, 2002, 66, .	1.0	24
96	Dipole lifetime in stratified media. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 412.	0.9	54
97	Deep UV laser induced luminescence in oxide thin films. Applied Physics A: Materials Science and Processing, 2002, 75, 637-640.	1.1	11
98	Corrugated neat thin-film conjugated polymer distributed-feedback lasers. Applied Physics B: Lasers and Optics, 2002, 74, 333-342.	1.1	67