

Peter Verwilst

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4632814/peter-verwilst-publications-by-year.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

64
papers

3,169
citations

25
h-index

56
g-index

67
ext. papers

4,055
ext. citations

10.9
avg, IF

5.69
L-index

#	Paper	IF	Citations
64	Picomolar-sensitive β -amyloid fibril fluorophores by tailoring the hydrophobicity of biannulated elongated dioxaborine-dyes. <i>Bioactive Materials</i> , 2022 , 13, 239-248	16.7	3
63	A fluorescent nanoprobe based on AIEgen: Visualization of silver ions and sensing applications in cancer cells and <i>S. aureus</i> . <i>Dyes and Pigments</i> , 2022 , 198, 110027	4.6	2
62	Calix[4]triazolium based turn-on fluorescent sensing ensemble for selective adenosine monophosphate (AMP) detection. <i>Chemical Communications</i> , 2021 , 57, 12139-12142	5.8	4
61	Multichromatic fluorescence towards aberrant proteinaceous aggregates utilizing benzimidazole-based ICT fluorophores. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2021 , 101, 205	1.7	2
60	Human Glioblastoma Visualization: Triple Receptor-Targeting Fluorescent Complex of Dye, SIWV Tetra-Peptide, and Serum Albumin Protein. <i>ACS Sensors</i> , 2021 , 6, 2270-2280	9.2	2
59	A Small Molecule Strategy for Targeting Cancer Stem Cells in Hypoxic Microenvironments and Preventing Tumorigenesis. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14115-14124	16.4	7
58	Combining viscosity-restricted intramolecular motion and mitochondrial targeting leads to selective tumor visualization. <i>Chemical Communications</i> , 2020 , 56, 6684-6687	5.8	30
57	STORM imaging of mitochondrial dynamics using a vicinal-dithiol-proteins-targeted probe. <i>Biomaterials</i> , 2020 , 243, 119938	15.6	7
56	MDM2-Associated Clusterization-Triggered Emission and Apoptosis Induction Effectuated by a Theranostic Spiropolymer. <i>Angewandte Chemie</i> , 2020 , 132, 8513-8517	3.6	0
55	MDM2-Associated Clusterization-Triggered Emission and Apoptosis Induction Effectuated by a Theranostic Spiropolymer. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8435-8439	16.4	26
54	Mitochondrial relocation of a common synthetic antibiotic: A non-genotoxic approach to cancer therapy. <i>Chem</i> , 2020 , 6, 1408-1419	16.2	18
53	Crown ether-appended calix[2]triazolium[2]arene as a macrocyclic receptor for the recognition of the HPO anion. <i>Chemical Communications</i> , 2020 , 56, 1038-1041	5.8	7
52	Visualizing mitochondria and mouse intestine with a fluorescent complex of a naphthalene-based dipolar dye and serum albumin. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 7642-7651	7.3	2
51	In Vitro Activation of Cytochrome P450 46A1 (CYP46A1) by Efavirenz-Related Compounds. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 6477-6488	8.3	12
50	Enhanced sensitivity of fluorescence-based Fe(II) detection by freezing. <i>Chemical Communications</i> , 2019 , 55, 12136-12139	5.8	11
49	Harnessing Intramolecular Rotation To Enhance Two-photon Imaging of A β Plaques through Minimizing Background Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5648-5652	16.4	34
48	Harnessing Intramolecular Rotation To Enhance Two-photon Imaging of A β Plaques through Minimizing Background Fluorescence. <i>Angewandte Chemie</i> , 2019 , 131, 5704-5708	3.6	6

47	Coumarin-Based Small-Molecule Fluorescent Chemosensors. <i>Chemical Reviews</i> , 2019 , 119, 10403-10519	68.1	437
46	A colorimetric and fluorescent lighting-up sensor based on ICT coupled with PET for rapid, specific and sensitive detection of nitrite in food. <i>Chemical Communications</i> , 2019 , 55, 9947-9950	5.8	27
45	Revealing Protein Aggregates under Thapsigargin-Induced ER Stress Using an ER-Targeted Thioflavin. <i>ACS Sensors</i> , 2019 , 4, 2858-2863	9.2	3
44	Ultrasensitive electrochemical genosensor for direct detection of specific RNA sequences derived from avian influenza viruses present in biological samples. <i>Acta Biochimica Polonica</i> , 2019 , 66, 299-304	2	5
43	In Vivo Imaging of Endogenously Produced HClO in Zebrafish and Mice Using a Bright, Photostable Ratiometric Fluorescent Probe. <i>Analytical Chemistry</i> , 2019 , 91, 4172-4178	7.8	151
42	Nanomolar detection of adenosine triphosphate (ATP) using a nanostructured fluorescent chemosensing ensemble. <i>Chemical Communications</i> , 2019 , 55, 14135-14138	5.8	10
41	Shedding light on tau protein aggregation: the progress in developing highly selective fluorophores. <i>Chemical Society Reviews</i> , 2018 , 47, 2249-2265	58.5	70
40	A two-photon fluorescent probe records the intracellular pH through DR logic operation via internal calibration. <i>Sensors and Actuators B: Chemical</i> , 2018 , 268, 195-204	8.5	19
39	Organic molecule-based photothermal agents: an expanding photothermal therapy universe. <i>Chemical Society Reviews</i> , 2018 , 47, 2280-2297	58.5	626
38	Modulating the GSH/Trx selectivity of a fluorogenic disulfide-based thiol sensor to reveal diminished GSH levels under ER stress. <i>Chemical Communications</i> , 2018 , 54, 8897-8900	5.8	13
37	A Fluorescent Cy7-Mercaptopyridine for the Selective Detection of Glutathione over Homocysteine and Cysteine. <i>Sensors</i> , 2018 , 18,	3.8	5
36	A Mitochondria-Targeted Cryptocyanine-Based Photothermogenic Photosensitizer. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9972-9978	16.4	209
35	Targeted combinational therapy inducing mitochondrial dysfunction. <i>Chemical Communications</i> , 2017 , 53, 1281-1284	5.8	25
34	Rational Design of in Vivo Tau Tangle-Selective Near-Infrared Fluorophores: Expanding the BODIPY Universe. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13393-13403	16.4	71
33	PLK1-Targeted Fluorescent Tumor Imaging with High Signal-to-Background Ratio. <i>ACS Sensors</i> , 2017 , 2, 1512-1516	9.2	15
32	Photosensitizer localization in amphiphilic block copolymers controls photodynamic therapy efficacy. <i>Nanoscale</i> , 2017 , 9, 11180-11186	7.7	22
31	Reconsidering azobenzene as a component of small-molecule hypoxia-mediated cancer drugs: A theranostic case study. <i>Biomaterials</i> , 2017 , 115, 104-114	15.6	73
30	Electrochemical Biosensor for the Detection of Glycated Albumin. <i>Current Alzheimer Research</i> , 2017 , 14, 345-351	3	1

29	A biotin-guided formaldehyde sensor selectively detecting endogenous concentrations in cancerous cells and tissues. <i>Chemical Communications</i> , 2016 , 52, 11247-11250	5.8	80
28	Mitochondria-targeted aggregation induced emission theranostics: crucial importance of activation. <i>Chemical Science</i> , 2016 , 7, 6050-6059	9.4	73
27	Coumarin-decorated Schiff base hydrolysis as an efficient driving force for the fluorescence detection of water in organic solvents. <i>Chemical Communications</i> , 2016 , 52, 8675-8	5.8	55
26	BODIPY/Nile-Red-Based Efficient FRET Pair: Selective Assay of Endoplasmic Reticulum Membrane Fluidity. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 527-31	4.5	11
25	Fluorescent and colorimetric sensors for the detection of humidity or water content. <i>Chemical Society Reviews</i> , 2016 , 45, 1242-56	58.5	311
24	Cancer Targeted Enzymatic Theranostic Prodrug: Precise Diagnosis and Chemotherapy. <i>Bioconjugate Chemistry</i> , 2016 , 27, 1419-26	6.3	53
23	Organelle-selective di-(2-picoly)amine-appended water-soluble fluorescent sensors for Cu(II): synthesis, photophysical and in vitro studies. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2015 , 82, 109-116	1.7	3
22	BODIPY-Coumarin Conjugate as an Endoplasmic Reticulum Membrane Fluidity Sensor and Its Application to ER Stress Models. <i>Bioconjugate Chemistry</i> , 2015 , 26, 2474-80	6.3	32
21	Anion binding and transport properties of cyclic 2,6-bis(1,2,3-triazol-1-yl)pyridines. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 1654-61	3.9	11
20	Highly selective in vivo imaging of endogenous/exogenous phosphate ion over ATP and PPI. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 1165-9	4.5	21
19	Recent advances in Gd-chelate based bimodal optical/MRI contrast agents. <i>Chemical Society Reviews</i> , 2015 , 44, 1791-806	58.5	113
18	The role of copper ions in pathophysiology and fluorescent sensors for the detection thereof. <i>Chemical Communications</i> , 2015 , 51, 5556-71	5.8	77
17	Direct observation of reversible electronic energy transfer involving an iridium center. <i>Inorganic Chemistry</i> , 2014 , 53, 2677-82	5.1	43
16	Immobilization of His-tagged kinase JAK2 onto the surface of a plasmon resonance gold disc modified with different copper (II) complexes. <i>Talanta</i> , 2014 , 130, 336-41	6.2	10
15	Pentetic acid (DPTA) Cu(II) monolayer deposited on gold electrode as the base of biosensors for electrochemical screening of kinase JAK2 and potential inhibitor interactions. <i>Sensors and Actuators B: Chemical</i> , 2014 , 196, 223-230	8.5	5
14	Voltammetric detection of S100B protein using His-tagged receptor domains for advanced glycation end products (RAGE) immobilized onto a gold electrode surface. <i>Sensors</i> , 2014 , 14, 10650-63	3.8	12
13	Synthesis and in vitro evaluation of a PDT active BODIPY-NLS conjugate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 3204-7	2.9	19
12	Ruthenium(II) complexes based on tridentate polypyridine ligands that feature long-lived room-temperature luminescence. <i>Chemical Communications</i> , 2013 , 49, 9110-2	5.8	39

11	Controlling the self-assembly of cationic bolaamphiphiles: counterion-directed transitions from 0D/1D to exclusively 2D planar structures. <i>Chemical Science</i> , 2013 , 4, 4486	9.4	36
10	Preorganization in bistriazolyl anion receptors. <i>Tetrahedron Letters</i> , 2013 , 54, 4237-4240	2	18
9	Oriented immobilization of His-tagged protein on a redox active thiol derivative of DPTA-Cu(II) layer deposited on a gold electrode--the base of electrochemical biosensors. <i>Sensors</i> , 2013 , 13, 11586-602	3.8	15
8	Photolariats: synthesis, metal ion complexation and photochromism. <i>Supramolecular Chemistry</i> , 2012 , 24, 462-472	1.8	4
7	A tripodal ruthenium-gadolinium metallostar as a potential (M)(B) integrin specific bimodal imaging contrast agent. <i>Inorganic Chemistry</i> , 2012 , 51, 6405-11	5.1	38
6	Bolaamphiphiles bearing bipyridine as mesogenic core: rational exploitation of molecular architectures for controlled self-assembly. <i>Langmuir</i> , 2012 , 28, 5023-30	4	22
5	Tetranuclear d-f metallostars: synthesis, relaxometric, and luminescent properties. <i>Inorganic Chemistry</i> , 2012 , 51, 8775-83	5.1	40
4	A heterobimetallic ruthenium-gadolinium complex as a potential agent for bimodal imaging. <i>Inorganic Chemistry</i> , 2011 , 50, 10005-14	5.1	44
3	A Modular Approach towards the Synthesis of Target-Specific MRI Contrast Agents. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 3577-3585	2.3	16
2	Synthesis and modifications of a small library of 1,4-benzodiazepin-3-ones toward potential inhibitors of the collagen α 1(I)Willebrand Factor interaction. <i>Tetrahedron</i> , 2009 , 65, 4521-4529	2.4	6
1	Fluorescent Visualization of Nucleolar G-Quadruplex RNA and Dynamics of Cytoplasm and Intranuclear Viscosity. <i>CCS Chemistry</i> , 2725-2739	7.2	3