

# Peter Verwilst

## List of Publications by Citations

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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.

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	Organic molecule-based photothermal agents: an expanding photothermal therapy universe. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 2280-2297	58.5	626
63	Coumarin-Based Small-Molecule Fluorescent Chemosensors. <i>Chemical Reviews</i> , <b>2019</b> , 119, 10403-10519	68.1	437
62	Fluorescent and colorimetric sensors for the detection of humidity or water content. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 1242-56	58.5	311
61	A Mitochondria-Targeted Cryptocyanine-Based Photothermogenic Photosensitizer. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 9972-9978	16.4	209
60	In Vivo Imaging of Endogenously Produced HClO in Zebrafish and Mice Using a Bright, Photostable Ratiometric Fluorescent Probe. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 4172-4178	7.8	151
59	Recent advances in Gd-chelate based bimodal optical/MRI contrast agents. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 1791-806	58.5	113
58	A biotin-guided formaldehyde sensor selectively detecting endogenous concentrations in cancerous cells and tissues. <i>Chemical Communications</i> , <b>2016</b> , 52, 11247-11250	5.8	80
57	The role of copper ions in pathophysiology and fluorescent sensors for the detection thereof. <i>Chemical Communications</i> , <b>2015</b> , 51, 5556-71	5.8	77
56	Mitochondria-targeted aggregation induced emission theranostics: crucial importance of activation. <i>Chemical Science</i> , <b>2016</b> , 7, 6050-6059	9.4	73
55	Reconsidering azobenzene as a component of small-molecule hypoxia-mediated cancer drugs: A theranostic case study. <i>Biomaterials</i> , <b>2017</b> , 115, 104-114	15.6	73
54	Rational Design of in Vivo Tau Tangle-Selective Near-Infrared Fluorophores: Expanding the BODIPY Universe. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13393-13403	16.4	71
53	Shedding light on tau protein aggregation: the progress in developing highly selective fluorophores. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 2249-2265	58.5	70
52	Coumarin-decorated Schiff base hydrolysis as an efficient driving force for the fluorescence detection of water in organic solvents. <i>Chemical Communications</i> , <b>2016</b> , 52, 8675-8	5.8	55
51	Cancer Targeted Enzymatic Theranostic Prodrug: Precise Diagnosis and Chemotherapy. <i>Bioconjugate Chemistry</i> , <b>2016</b> , 27, 1419-26	6.3	53
50	A heterobimetallic ruthenium-gadolinium complex as a potential agent for bimodal imaging. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 10005-14	5.1	44
49	Direct observation of reversible electronic energy transfer involving an iridium center. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 2677-82	5.1	43
48	Tetranuclear d-f metallostars: synthesis, relaxometric, and luminescent properties. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 8775-83	5.1	40

47	Ruthenium(II) complexes based on tridentate polypyridine ligands that feature long-lived room-temperature luminescence. <i>Chemical Communications</i> , <b>2013</b> , 49, 9110-2	5.8	39
46	A tripodal ruthenium-gadolinium metallostar as a potential $\alpha$ (v) $\beta$ integrin specific bimodal imaging contrast agent. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 6405-11	5.1	38
45	Controlling the self-assembly of cationic bolaamphiphiles: counterion-directed transitions from 0D/1D to exclusively 2D planar structures. <i>Chemical Science</i> , <b>2013</b> , 4, 4486	9.4	36
44	Harnessing Intramolecular Rotation To Enhance Two-photon Imaging of A $\beta$ Plaques through Minimizing Background Fluorescence. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 5648-5652	16.4	34
43	BODIPY-Coumarin Conjugate as an Endoplasmic Reticulum Membrane Fluidity Sensor and Its Application to ER Stress Models. <i>Bioconjugate Chemistry</i> , <b>2015</b> , 26, 2474-80	6.3	32
42	Combining viscosity-restricted intramolecular motion and mitochondrial targeting leads to selective tumor visualization. <i>Chemical Communications</i> , <b>2020</b> , 56, 6684-6687	5.8	30
41	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> , <b>2019</b> , 55, 9947-9950	5.8	27
40	MDM2-Associated Clusterization-Triggered Emission and Apoptosis Induction Effectuated by a Theranostic Spiropolymer. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 8435-8439	16.4	26
39	Targeted combinational therapy inducing mitochondrial dysfunction. <i>Chemical Communications</i> , <b>2017</b> , 53, 1281-1284	5.8	25
38	Photosensitizer localization in amphiphilic block copolymers controls photodynamic therapy efficacy. <i>Nanoscale</i> , <b>2017</b> , 9, 11180-11186	7.7	22
37	Bolaamphiphiles bearing bipyridine as mesogenic core: rational exploitation of molecular architectures for controlled self-assembly. <i>Langmuir</i> , <b>2012</b> , 28, 5023-30	4	22
36	Highly selective in vivo imaging of endogenous/exogenous phosphate ion over ATP and P <sub>Pi</sub> . <i>Chemistry - an Asian Journal</i> , <b>2015</b> , 10, 1165-9	4.5	21
35	A two-photon fluorescent probe records the intracellular pH through DR $\pi$ logic operation via internal calibration. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 268, 195-204	8.5	19
34	Synthesis and in vitro evaluation of a PDT active BODIPY-NLS conjugate. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2013</b> , 23, 3204-7	2.9	19
33	Mitochondrial relocation of a common synthetic antibiotic: A non-genotoxic approach to cancer therapy. <i>Chem</i> , <b>2020</b> , 6, 1408-1419	16.2	18
32	Preorganization in bistriazolyl anion receptors. <i>Tetrahedron Letters</i> , <b>2013</b> , 54, 4237-4240	2	18
31	A Modular Approach towards the Synthesis of Target-Specific MRI Contrast Agents. <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, 3577-3585	2.3	16
30	PLK1-Targeted Fluorescent Tumor Imaging with High Signal-to-Background Ratio. <i>ACS Sensors</i> , <b>2017</b> , 2, 1512-1516	9.2	15

29	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> , <b>2013</b> , 13, 11586-602	3.8	15
28	Modulating the GSH/Trx selectivity of a fluorogenic disulfide-based thiol sensor to reveal diminished GSH levels under ER stress. <i>Chemical Communications</i> , <b>2018</b> , 54, 8897-8900	5.8	13
27	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> , <b>2014</b> , 14, 10650-63	3.8	12
26	In Vitro Activation of Cytochrome P450 46A1 (CYP46A1) by Efavirenz-Related Compounds. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 6477-6488	8.3	12
25	Enhanced sensitivity of fluorescence-based Fe(ii) detection by freezing. <i>Chemical Communications</i> , <b>2019</b> , 55, 12136-12139	5.8	11
24	Anion binding and transport properties of cyclic 2,6-bis(1,2,3-triazol-1-yl)pyridines. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 1654-61	3.9	11
23	BODIPY/Nile-Red-Based Efficient FRET Pair: Selective Assay of Endoplasmic Reticulum Membrane Fluidity. <i>Chemistry - an Asian Journal</i> , <b>2016</b> , 11, 527-31	4.5	11
22	Immobilization of His-tagged kinase JAK2 onto the surface of a plasmon resonance gold disc modified with different copper (II) complexes. <i>Talanta</i> , <b>2014</b> , 130, 336-41	6.2	10
21	Nanomolar detection of adenosine triphosphate (ATP) using a nanostructured fluorescent chemosensing ensemble. <i>Chemical Communications</i> , <b>2019</b> , 55, 14135-14138	5.8	10
20	STORM imaging of mitochondrial dynamics using a vicinal-dithiol-proteins-targeted probe. <i>Biomaterials</i> , <b>2020</b> , 243, 119938	15.6	7
19	Crown ether-appended calix[2]triazolium[2]arene as a macrocyclic receptor for the recognition of the HPO anion. <i>Chemical Communications</i> , <b>2020</b> , 56, 1038-1041	5.8	7
18	A Small Molecule Strategy for Targeting Cancer Stem Cells in Hypoxic Microenvironments and Preventing Tumorigenesis. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 14115-14124	16.4	7
17	Harnessing Intramolecular Rotation To Enhance Two-photon Imaging of Aβ Plaques through Minimizing Background Fluorescence. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 5704-5708	3.6	6
16	Synthesis and modifications of a small library of 1,4-benzodiazepin-3-ones toward potential inhibitors of the collagen $\alpha$ 1(I) Willebrand Factor interaction. <i>Tetrahedron</i> , <b>2009</b> , 65, 4521-4529	2.4	6
15	Pentetic acid (DPTA) Cu(II) monolayer deposited on gold electrode—the base of biosensors for electrochemical screening of kinase JAK2 and potential inhibitor interactions. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 196, 223-230	8.5	5
14	Ultrasensitive electrochemical genosensor for direct detection of specific RNA sequences derived from avian influenza viruses present in biological samples. <i>Acta Biochimica Polonica</i> , <b>2019</b> , 66, 299-304	2	5
13	A Fluorescent Cy7-Mercaptopyridine for the Selective Detection of Glutathione over Homocysteine and Cysteine. <i>Sensors</i> , <b>2018</b> , 18,	3.8	5
12	Photolariats: synthesis, metal ion complexation and photochromism. <i>Supramolecular Chemistry</i> , <b>2012</b> , 24, 462-472	1.8	4

11	Calix[4]triazolium based turn-on fluorescent sensing ensemble for selective adenosine monophosphate (AMP) detection. <i>Chemical Communications</i> , <b>2021</b> , 57, 12139-12142	5.8	4
10	Organelle-selective di-(2-picoyl)amine-appended water-soluble fluorescent sensors for Cu(II): synthesis, photophysical and in vitro studies. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2015</b> , 82, 109-116	1.7	3
9	Revealing Protein Aggregates under Thapsigargin-Induced ER Stress Using an ER-Targeted Thioflavin. <i>ACS Sensors</i> , <b>2019</b> , 4, 2858-2863	9.2	3
8	Picomolar-sensitive $\beta$ -amyloid fibril fluorophores by tailoring the hydrophobicity of biannulated $\beta$ -elongated dioxaborine-dyes. <i>Bioactive Materials</i> , <b>2022</b> , 13, 239-248	16.7	3
7	Fluorescent Visualization of Nucleolar G-Quadruplex RNA and Dynamics of Cytoplasm and Intranuclear Viscosity. <i>CCS Chemistry</i> , 2725-2739	7.2	3
6	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> , <b>2022</b> , 198, 110027	4.6	2
5	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> , <b>2020</b> , 8, 7642-7651	7.3	2
4	Multichromatic fluorescence towards aberrant proteinaceous aggregates utilizing benzimidazole-based ICT fluorophores. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2021</b> , 101, 205	1.7	2
3	Human Glioblastoma Visualization: Triple Receptor-Targeting Fluorescent Complex of Dye, SIWV Tetra-Peptide, and Serum Albumin Protein. <i>ACS Sensors</i> , <b>2021</b> , 6, 2270-2280	9.2	2
2	Electrochemical Biosensor for the Detection of Glycated Albumin. <i>Current Alzheimer Research</i> , <b>2017</b> , 14, 345-351	3	1
1	MDM2-Associated Clusterization-Triggered Emission and Apoptosis Induction Effectuated by a Theranostic Spiropolymer. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 8513-8517	3.6	0