

# William J Peveler

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7099123/publications.pdf>

Version: 2024-02-01

44  
papers

1,842  
citations

236925

25  
h-index

265206

42  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2881  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photo-induced enhanced Raman spectroscopy for universal ultra-trace detection of explosives, pollutants and biomolecules. <i>Nature Communications</i> , 2016, 7, 12189.	12.8	201
2	Array-based "Chemical Nose" Sensing in Diagnostics and Drug Discovery. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5190-5200.	13.8	165
3	Photoluminescent Nanoparticles for Chemical and Biological Analysis and Imaging. <i>Chemical Reviews</i> , 2021, 121, 9243-9358.	47.7	162
4	Selectivity and Specificity: Pros and Cons in Sensing. <i>ACS Sensors</i> , 2016, 1, 1282-1285.	7.8	153
5	Multichannel Detection and Differentiation of Explosives with a Quantum Dot Array. <i>ACS Nano</i> , 2016, 10, 1139-1146.	14.6	120
6	Sensitive and specific detection of explosives in solution and vapour by surface-enhanced Raman spectroscopy on silver nanocubes. <i>Nanoscale</i> , 2017, 9, 16459-16466.	5.6	78
7	The vapour phase detection of explosive markers and derivatives using two fluorescent metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6351-6359.	10.3	69
8	A Rapid and Robust Diagnostic for Liver Fibrosis Using a Multichannel Polymer Sensor Array. <i>Advanced Materials</i> , 2018, 30, e1800634.	21.0	62
9	Dynamics of Photo-induced Surface Oxygen Vacancies in Metal-Oxide Semiconductors Studied Under Ambient Conditions. <i>Advanced Science</i> , 2019, 6, 1901841.	11.2	62
10	Thiol-Capped Gold Nanoparticles Swell-Encapsulated into Polyurethane as Powerful Antibacterial Surfaces Under Dark and Light Conditions. <i>Scientific Reports</i> , 2016, 6, 39272.	3.3	54
11	Sensing and Discrimination of Explosives at Variable Concentrations with a Large-Pore MOF as Part of a Luminescent Array. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 11618-11626.	8.0	54
12	Comparison of Semiconducting Polymer Dots and Semiconductor Quantum Dots for Smartphone-Based Fluorescence Assays. <i>Analytical Chemistry</i> , 2019, 91, 10955-10960.	6.5	45
13	Lethal photosensitisation of <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> using crystal violet and zinc oxide-encapsulated polyurethane. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6490-6500.	5.8	43
14	Enhancing the Antibacterial Activity of Light-Activated Surfaces Containing Crystal Violet and ZnO Nanoparticles: Investigation of Nanoparticle Size, Capping Ligand, and Dopants. <i>ACS Omega</i> , 2016, 1, 334-343.	3.5	41
15	Plasmonic Gold Nanostars Incorporated into High-Efficiency Perovskite Solar Cells. <i>ChemSusChem</i> , 2017, 10, 3750-3753.	6.8	39
16	Small Surface, Big Effects, and Big Challenges: Toward Understanding Enzymatic Activity at the Inorganic Nanoparticle-Substrate Interface. <i>Langmuir</i> , 2019, 35, 7067-7091.	3.5	39
17	Detection of explosive markers using zeolite modified gas sensors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2613.	10.3	36
18	Nanoparticle-sulphur inverse vulcanisation-polymer composites. <i>Chemical Communications</i> , 2015, 51, 10467-10470.	4.1	35

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19	Covalently Attached Antimicrobial Surfaces Using BODIPY: Improving Efficiency and Effectiveness. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 98-104.	8.0	35
20	More Than a Light Switch: Engineering Unconventional Fluorescent Configurations for Biological Sensing. <i>ACS Chemical Biology</i> , 2018, 13, 1752-1766.	3.4	31
21	Selective Detection of Nitroexplosives Using Molecular Recognition within Self-Assembled Plasmonic Nanojunctions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15769-15776.	3.1	31
22	Plasmonic Nanoprobes for Stimulated Emission Depletion Nanoscopy. <i>ACS Nano</i> , 2016, 10, 10454-10461.	14.6	29
23	Organic-inorganic hybrid materials: nanoparticle containing organogels with myriad applications. <i>Chemical Communications</i> , 2014, 50, 14418-14420.	4.1	28
24	Photosensitisation studies of silicone polymer doped with methylene blue and nanogold for antimicrobial applications. <i>RSC Advances</i> , 2015, 5, 54830-54842.	3.6	28
25	Amine Molecular Cages as Supramolecular Fluorescent Explosive Sensors: A Computational Perspective. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5063-5072.	2.6	28
26	Whisky tasting using a bimetallic nanoplasmonic tongue. <i>Nanoscale</i> , 2019, 11, 15216-15223.	5.6	23
27	Advanced analysis of nanoparticle composites – a means toward increasing the efficiency of functional materials. <i>RSC Advances</i> , 2015, 5, 53789-53795.	3.6	16
28	Yellowish-orange and red emitting quinoline-based iridium(III) complexes: Synthesis, thermal, optical and electrochemical properties and OLED application. <i>Synthetic Metals</i> , 2020, 268, 116504.	3.9	15
29	Rapid synthesis of gold nanostructures with cyclic and linear ketones. <i>RSC Advances</i> , 2013, 3, 21919.	3.6	14
30	Nanoparticles in explosives detection – the state-of-the-art and future directions. <i>Forensic Science, Medicine, and Pathology</i> , 2017, 13, 490-494.	1.4	14
31	Array-basierte Sensorik mit der chemischen Nase in der Diagnostik und Wirkstoffentdeckung. <i>Angewandte Chemie</i> , 2019, 131, 5244-5255.	2.0	13
32	A new family of urea-based low molecular-weight organogelators for environmental remediation: the influence of structure. <i>Soft Matter</i> , 2018, 14, 8821-8827.	2.7	11
33	Cucurbituril-mediated quantum dot aggregates formed by aqueous self-assembly for sensing applications. <i>Chemical Communications</i> , 2019, 55, 5495-5498.	4.1	11
34	Chiral Quantum Metamaterial for Hypersensitive Biomolecule Detection. <i>ACS Nano</i> , 2021, 15, 19905-19916.	14.6	11
35	Superhydrophobic Au/polymer nanocomposite films via AACVD/swell encapsulation tandem synthesis procedure. <i>RSC Advances</i> , 2016, 6, 31146-31152.	3.6	10
36	Carbazole-based D-A molecules: Determining the photophysical properties and comparing ICT effects of spacer and acceptor groups. <i>Journal of Molecular Structure</i> , 2021, 1239, 130494.	3.6	10

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37	Synthesis of novel multifunctional carbazole-based molecules and their thermal, electrochemical and optical properties. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 1066-1074.	2.2	8
38	A red-orange carbazole-based iridium(III) complex: Synthesis, thermal, optical and electrochemical properties and OLED application. <i>Journal of Organometallic Chemistry</i> , 2021, 951, 122004.	1.8	7
39	Surface Oxygen Vacancies: Dynamics of Photo-Induced Surface Oxygen Vacancies in Metal-Oxide Semiconductors Studied Under Ambient Conditions ( <i>Adv. Sci.</i> 22/2019). <i>Advanced Science</i> , 2019, 6, 1970132.	11.2	3
40	Myelinated axons are the primary target of hemin-mediated oxidative damage in a model of the central nervous system. <i>Experimental Neurology</i> , 2022, 354, 114113.	4.1	3
41	In situ formation of low molecular weight organogelators for slick solidification. <i>RSC Advances</i> , 2020, 10, 13369-13373.	3.6	2
42	Photo-induced enhanced Raman spectroscopy (PIERS): sensing atomic-defects, explosives and biomolecules. , 2019, , .		2
43	Advanced Compositional Analysis of Nanoparticle-polymer Composites Using Direct Fluorescence Imaging. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	1
44	Development and characterisation of a brain tumour mimicking protoporphyrin IX fluorescence phantom (Conference Presentation). , 2017, , .		0