William J Peveler

List of Publications by Year
in descending order

44	1,842	236925	265206
papers	citations	25 h-index	42 g-index

46	46	46	2881
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Myelinated axons are the primary target of hemin-mediated oxidative damage in a model of the central nervous system. Experimental Neurology, 2022, 354, 114113.	4.1	3
2	Photoluminescent Nanoparticles for Chemical and Biological Analysis and Imaging. Chemical Reviews, 2021, 121, 9243-9358.	47.7	162
3	Carbazole-based D-Ï€-A molecules: Determining the photophysical properties and comparing ICT effects of Ï€-spacer and acceptor groups. Journal of Molecular Structure, 2021, 1239, 130494.	3.6	10
4	A red-orange carbazole-based iridium(III) complex: Synthesis, thermal, optical and electrochemical properties and OLED application. Journal of Organometallic Chemistry, 2021, 951, 122004.	1.8	7
5	Chiral Quantum Metamaterial for Hypersensitive Biomolecule Detection. ACS Nano, 2021, 15, 19905-19916.	14.6	11
6	Yellowish-orange and red emitting quinoline-based iridium(III) complexes: Synthesis, thermal, optical and electrochemical properties and OLED application. Synthetic Metals, 2020, 268, 116504.	3.9	15
7	In situ formation of low molecular weight organogelators for slick solidification. RSC Advances, 2020, 10, 13369-13373.	3.6	2
8	Synthesis of novel multifunctional carbazole-based molecules and their thermal, electrochemical and optical properties. Beilstein Journal of Organic Chemistry, 2020, 16, 1066-1074.	2.2	8
9	Comparison of Semiconducting Polymer Dots and Semiconductor Quantum Dots for Smartphone-Based Fluorescence Assays. Analytical Chemistry, 2019, 91, 10955-10960.	6.5	45
10	Whisky tasting using a bimetallic nanoplasmonic tongue. Nanoscale, 2019, 11, 15216-15223.	5.6	23
11	Dynamics of Photoâ€Induced Surface Oxygen Vacancies in Metalâ€Oxide Semiconductors Studied Under Ambient Conditions. Advanced Science, 2019, 6, 1901841.	11.2	62
12	Selective Detection of Nitroexplosives Using Molecular Recognition within Self-Assembled Plasmonic Nanojunctions. Journal of Physical Chemistry C, 2019, 123, 15769-15776.	3.1	31
13	Sensing and Discrimination of Explosives at Variable Concentrations with a Large-Pore MOF as Part of a Luminescent Array. ACS Applied Materials & Interfaces, 2019, 11, 11618-11626.	8.0	54
14	Cucurbituril-mediated quantum dot aggregates formed by aqueous self-assembly for sensing applications. Chemical Communications, 2019, 55, 5495-5498.	4.1	11
15	Arrayâ€basierte Sensorik mit der â€œchemischen Naseâ€• in der Diagnostik und Wirkstoffentdeckung. Angewandte Chemie, 2019, 131, 5244-5255.	2.0	13
16	Surface Oxygen Vacancies: Dynamics of Photoâ€Induced Surface Oxygen Vacancies in Metalâ€Oxide Semiconductors Studied Under Ambient Conditions (Adv. Sci. 22/2019). Advanced Science, 2019, 6, 1970132.	11.2	3
17	Small Surface, Big Effects, and Big Challenges: Toward Understanding Enzymatic Activity at the Inorganic Nanoparticleâ€“Substrate Interface. Langmuir, 2019, 35, 7067-7091.	3.5	39
18	Arrayâ€based â€œChemical Naseâ€•Sensing in Diagnostics and Drug Discovery. Angewandte Chemie - International Edition, 2019, 58, 5190-5200.	13.8	165

#	Article	IF	Citations
19	Photo-induced enhanced Raman spectroscopy (PIERS): sensing atomic-defects, explosives and biomolecules. , 2019, , .		2
20	More Than a Light Switch: Engineering Unconventional Fluorescent Configurations for Biological Sensing. ACS Chemical Biology, 2018, 13, 1752-1766.	3.4	31
21	Covalently Attached Antimicrobial Surfaces Using BODIPY: Improving Efficiency and Effectiveness. ACS Applied Materials & Interfaces, 2018, 10, 98-104.	8.0	35
22	A new family of urea-based low molecular-weight organogelators for environmental remediation: the influence of structure. Soft Matter, 2018, 14, 8821-8827.	2.7	11
23	A Rapid and Robust Diagnostic for Liver Fibrosis Using a Multichannel Polymer Sensor Array. Advanced Materials, 2018, 30, e1800634.	21.0	62
24	Nanoparticles in explosives detection â€“ the state-of-the-art and future directions. Forensic Science, Medicine, and Pathology, 2017, 13, 490-494.	1.4	14
25	Sensitive and specific detection of explosives in solution and vapour by surface-enhanced Raman spectroscopy on silver nanocubes. Nanoscale, 2017, 9, 16459-16466.	5.6	78
26	Plasmonic Gold Nanostars Incorporated into Highâ€Efficiency Perovskite Solar Cells. ChemSusChem, 2017, 10, 3750-3753.	6.8	39
27	Development and characterisation of a brain tumour mimicking protoporphyrin IX fluorescence phantom (Conference Presentation). , 2017, , .		0
28	Thiol-Capped Gold Nanoparticles Swell-Encapsulated into Polyurethane as Powerful Antibacterial Surfaces Under Dark and Light Conditions. Scientific Reports, 2016, 6, 39272.	3.3	54
29	Amine Molecular Cages as Supramolecular Fluorescent Explosive Sensors: A Computational Perspective. Journal of Physical Chemistry B, 2016, 120, 5063-5072.	2.6	28
30	Enhancing the Antibacterial Activity of Light-Activated Surfaces Containing Crystal Violet and ZnO Nanoparticles: Investigation of Nanoparticle Size, Capping Ligand, and Dopants. ACS Omega, 2016, 1, 334-343.	3.5	41
31	Selectivity and Specificity: Pros and Cons in Sensing. ACS Sensors, 2016, 1, 1282-1285.	7.8	153
32	Photo-induced enhanced Raman spectroscopy for universal ultra-trace detection of explosives, pollutants and biomolecules. Nature Communications, 2016, 7, 12189.	12.8	201
33	Plasmonic Nanoprobes for Stimulated Emission Depletion Nanoscopy. ACS Nano, 2016, 10, 10454-10461.	14.6	29
34	Advanced Compositional Analysis of Nanoparticle-polymer Composites Using Direct Fluorescence Imaging. Journal of Visualized Experiments, 2016, , .	0.3	1
35	Superhydrophobic Au/polymer nanocomposite films via AACVD/swell encapsulation tandem synthesis procedure. RSC Advances, 2016, 6, 31146-31152.	3.6	10
36	Multichannel Detection and Differentiation of Explosives with a Quantum Dot Array. ACS Nano, 2016, 10, 1139-1146.	14.6	120

#	Article	IF	Citations
37	Nanoparticleâ€“sulphur â€œinverse vulcanisationâ€•polymer composites. Chemical Communications, 2015, 51, 10467-10470.	4.1	35
38	Advanced analysis of nanoparticle composites â€“ a means toward increasing the efficiency of functional materials. RSC Advances, 2015, 5, 53789-53795.	3.6	16
39	The vapour phase detection of explosive markers and derivatives using two fluorescent metalâ€“organic frameworks. Journal of Materials Chemistry A, 2015, 3, 6351-6359.	10.3	69
40	Lethal photosensitisation of Staphylococcus aureus and Escherichia coli using crystal violet and zinc oxide-encapsulated polyurethane. Journal of Materials Chemistry B, 2015, 3, 6490-6500.	5.8	43
41	Photosensitisation studies of silicone polymer doped with methylene blue and nanogold for antimicrobial applications. RSC Advances, 2015, 5, 54830-54842.	3.6	28
42	Organicâ€“inorganic hybrid materials: nanoparticle containing organogels with myriad applications. Chemical Communications, 2014, 50, 14418-14420.	4.1	28
43	Rapid synthesis of gold nanostructures with cyclic and linear ketones. RSC Advances, 2013, 3, 21919.	3.6	14
44	Detection of explosive markers using zeolite modified gas sensors. Journal of Materials Chemistry A, 2013, 1, 2613.	10.3	36