Tristan Petit

List of Publications by Year
in descending order

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Version: 2024-02-01

49 papers	2,549 citations	218677 26 h-index	254184 43 g-index
52 all docs	52 docs citations	52 times ranked	3550 citing authors

#	Article	IF	Citations
1	Engineering oxygen-containing and amino groups into two-dimensional atomically-thin porous polymeric carbon nitrogen for enhanced photocatalytic hydrogen production. Energy and Environmental Science, 2018, 11, 566-571.	30.8	304
2	Controlled Propulsion and Cargo Transport of Rotating Nickel Nanowires near a Patterned Solid Surface. ACS Nano, 2010, 4, 6228-6234.	14.6	269
3	FTIR spectroscopy of nanodiamonds: Methods and interpretation. Diamond and Related Materials, 2018, 89, 52-66.	3.9	214
4	Selective Trapping and Manipulation of Microscale Objects Using Mobile Microvortices. Nano Letters, 2012, 12, 156-160.	9.1	153
5	Targeted cargo delivery using a rotating nickel nanowire. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1074-1080.	3.3	120
6	Surface properties of hydrogenated nanodiamonds: a chemical investigation. Physical Chemistry Chemical Physics, 2011, 13, 11517.	2.8	116
7	Early stages of surface graphitization on nanodiamond probed by x-ray photoelectron spectroscopy. Physical Review B, 2011, 84, .	3.2	116
8	Carboxylated nanodiamonds are neither cytotoxic nor genotoxic on liver, kidney, intestine and lung human cell lines. Nanotoxicology, 2014, 8, 46-56.	3.0	116
9	Unusual Water Hydrogen Bond Network around Hydrogenated Nanodiamonds. Journal of Physical Chemistry C, 2017, 121, 5185-5194.	3.1	104
10	Influence of surface chemistry on optical, chemical and electronic properties of blue luminescent carbon dots. Nanoscale, 2019, 11, 2056-2064.	5.6	94
11	Surface chemical modifications and surface reactivity of nanodiamonds hydrogenated by CVD plasma. Physical Chemistry Chemical Physics, 2011, 13, 11481.	2.8	71
12	Surface transfer doping can mediate both colloidal stability and self-assembly of nanodiamonds. Nanoscale, 2013, 5, 8958.	5.6	65
13	Impairing the radioresistance of cancer cells by hydrogenated nanodiamonds. Biomaterials, 2015, 61, 290-298.	11.4	62
14	Oxygen hole doping of nanodiamond. Nanoscale, 2012, 4, 6792.	5.6	61
15	Nitrogenâ€Rich Carbonaceous Materials for Advanced Oxygen Electrocatalysis: Synthesis, Characterization, and Activity of Nitrogen Sites. Advanced Functional Materials, 2022, 32, .	14.9	59
16	Dumbbell Fluidic Tweezers for Dynamical Trapping and Selective Transport of Microobjects. Advanced Functional Materials, 2017, 27, 1604571.	14.9	58
17	Probing Interfacial Water on Nanodiamonds in Colloidal Dispersion. Journal of Physical Chemistry Letters, 2015, 6, 2909-2912.	4.6	54
18	Plasma hydrogenated cationic detonation nanodiamonds efficiently deliver to human cells in culture functional siRNA targeting the Ewing sarcoma junction oncogene. Biomaterials, 2015, 45, 93-98.	11.4	49

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19	Surface Modifications of Detonation Nanodiamonds Probed by Multiwavelength Raman Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 23415-23425.	3.1	46
20	Enhancement of Ti₃C₂ MXene Pseudocapacitance after Urea Intercalation Studied by Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 5079-5086.	3.1	46
21	Nanoparticles Assume Electrical Potential According to Substrate, Size, and Surface Termination. Langmuir, 2013, 29, 1634-1641.	3.5	41
22	Atomic carbon chains-mediated carriers transfer over polymeric carbon nitride for efficient photocatalysis. Applied Catalysis B: Environmental, 2019, 259, 118027.	20.2	35
23	Valence holes observed in nanodiamonds dispersed in water. Nanoscale, 2015, 7, 2987-2991.	5.6	33
24	Impact of Cation Intercalation on the Electronic Structure of Ti₃C₂T_x MXenes in Sulfuric Acid. ACS Applied Materials & Interfaces, 2020, 12, 15087-15094.	8.0	32
25	Tritium labeling of detonation nanodiamonds. Chemical Communications, 2014, 50, 2916-2918.	4.1	29
26	Electrochemically Stimulated Release from Liposomes Embedded in a Polyelectrolyte Multilayer. Advanced Functional Materials, 2011, 21, 1666-1672.	14.9	28
27	Probing ion-specific effects on aqueous acetate solutions: Ion pairing versus water structure modifications. Structural Dynamics, 2014, 1, 034901.	2.3	22
28	Nanostructured Boron Doped Diamond Electrodes with Increased Reactivity for Solarâ€Driven CO₂ Reduction in Room Temperature Ionic Liquids. ChemCatChem, 2020, 12, 5548-5557.	3.7	15
29	Combining nanostructuration with boron doping to alter sub band gap acceptor states in diamond materials. Journal of Materials Chemistry A, 2018, 6, 16645-16654.	10.3	14
30	Uncovering the Charge Transfer between Carbon Dots and Water by In Situ Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 3843-3848.	4.6	13
31	Theoretical X-ray absorption spectroscopy database analysis for oxidised 2D carbon nanomaterials. Physical Chemistry Chemical Physics, 2019, 21, 6999-7008.	2.8	12
32	Xâ€Ray Absorption Spectroscopy of TiO₂ Nanoparticles in Water Using a Holey Membraneâ€Based Flow Cell. Advanced Materials Interfaces, 2017, 4, 1700755.	3.7	11
33	Role of Dopants on the Local Electronic Structure of PolymericÂCarbon Nitride Photocatalysts. Small Methods, 2021, 5, e2000707.	8.6	11
34	Surface potential of diamond and gold nanoparticles can be locally switched by surrounding materials or applied voltage. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	10
35	Spatially resolved X-ray absorption spectroscopy investigation of individual cation-intercalated multi-layered Ti3C2Tx MXene particles. Applied Surface Science, 2020, 530, 147157.	6.1	10
36	Soft X-ray spectroscopy of light elements in energy storage materials. Energy Storage Materials, 2021, 40, 72-95.	18.0	10

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37	Surface graphitization of ozone-treated detonation nanodiamonds. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2739-2743.	1.8	9
38	HR-EELS study of hydrogen bonding configuration, chemical and thermal stability of detonation nanodiamond films. Applied Surface Science, 2014, 305, 160-166.	6.1	6
39	Fluorination-dependent molecular orbital occupancy in ring-shaped perfluorocarbons. Physical Chemistry Chemical Physics, 2015, 17, 18337-18343.	2.8	6
40	Effects of oxidative adsorbates and cluster formation on the electronic structure of nanodiamonds. Journal of Computational Chemistry, 2022, 43, 923-929.	3.3	6
41	Motion control of artificial bacterial flagella. , 2010, , .		4
42	The electronic structure of perfluorodecalin studied by soft X-ray spectroscopy and electronic structure calculations. Physical Chemistry Chemical Physics, 2014, 16, 23379-23385.	2.8	3
43	Dumbbell fluidic tweezers: Enhanced trapping and manipulation of microscale objects using mobile microvortices. , 2014, , .		2
44	Interactions with solvent. , 2017, , 301-321.		2
45	Nanodiamond as a multimodal platform for drug delivery and radiosensitization of tumor cells. , 2013, , .		1
46	Impact of Nitrogen, Boron and Phosphorus Impurities on the Electronic Structure of Diamond Probed by X-ray Spectroscopies. Journal of Carbon Research, 2021, 7, 28.	2.7	1
47	Noncontact and contact micromanipulation using a rotating nickel nanowire. , 2010, , .		0
48	Nickel nanowire swimmers for colloidal cargo transport near a solid surface. , 2011, , .		0
49	Switching polarity of oxidized detonation diamond nanoparticles on substrates. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2095-2099.	1.8	0