Bernard Humbert

List of Publications by Year
in descending order

40 papers	872 citations	516215 16 h-index	476904 29 g-index
40 all docs	40 docs citations	40 times ranked	1707 citing authors

#	Article	IF	Citations
1	Hydration of a Synthetic Clay with Tetrahedral Charges:â€‰ A Multidisciplinary Experimental and Numerical Study. Journal of Physical Chemistry B, 2005, 109, 23745-23759.	1.2	88
2	Band Gap Engineering via Edge-Functionalization of Graphene Nanoribbons. Journal of Physical Chemistry C, 2013, 117, 26790-26796.	1.5	78
3	Dirac Cones in two-dimensional conjugated polymer networks. Nature Communications, 2014, 5, 5842.	5.8	69
4	Hydrolysis of Uranyl(VI) in Acidic and Basic Aqueous Solutions Using a Noncomplexing Organic Base: A Multivariate Spectroscopic and Statistical Study. Inorganic Chemistry, 2011, 50, 2811-2823.	1.9	62
5	Stable hydrogenated graphene edge types: Normal and reconstructed Klein edges. Physical Review B, 2013, 88, .	1.1	55
6	Color Control in Coaxial Two-Luminophore Nanowires. ACS Nano, 2013, 7, 2977-2987.	7.3	53
7	Galvanic Replacement Reaction: A Route to Highly Ordered Bimetallic Nanotubes. Journal of Physical Chemistry C, 2016, 120, 17652-17659.	1.5	52
8	Ripple edge engineering of graphene nanoribbons. Physical Review B, 2011, 84, .	1.1	40
9	Criteria to define a more relevant reference sample of titanium dioxide in the context of food: a multiscale approach. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2017, 34, 1-13.	1.1	36
10	Evaluation of the content of TiO₂ nanoparticles in the coatings of chewing gums. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2018, 35, 211-221.	1.1	32
11	Near-field Raman spectroscopy. Journal of Raman Spectroscopy, 1999, 30, 833-840.	1.2	31
12	Interactions between phospholipids and titanium dioxide particles. Colloids and Surfaces B: Biointerfaces, 2014, 123, 150-157.	2.5	30
13	Silica nanofibers as a new drug delivery system: a study of the proteinâ€“silica interactions. Journal of Materials Chemistry B, 2017, 5, 2908-2920.	2.9	25
14	Photochromic Organic Nanoparticles as Innovative Platforms for Plasmonic Nanoassemblies. ACS Applied Materials & Interfaces, 2015, 7, 1932-1942.	4.0	24
15	Titanium Dioxide as Food Additive. , 0, , .		22
16	Functionalized coreâ€“shell Ag@TiO2 nanoparticles for enhanced Raman spectroscopy: a sensitive detection method for Cu(ii) ions. Physical Chemistry Chemical Physics, 2019, 21, 3066-3072.	1.3	21
17	Interaction of U(VI) with pyrite, galena and their mixtures: a theoretical and multitechnique approach. Radiochimica Acta, 2006, 94, 657-663.	0.5	18
18	AFM-Nano Manipulation of Plasmonic Molecules Used as â€œNano-Lensâ€• to Enhance Raman of Individual Nano-Objects. Materials, 2019, 12, 1372.	1.3	16

#	Article	IF	Citations
19	Radiolytic Corrosion of Uranium Dioxide: Role of Molecular Species. Journal of Physical Chemistry C, 2014, 118, 1071-1080.	1.5	14
20	Lamellar nanoporous gold thin films with tunable porosity for ultrasensitive SERS detection in liquid and gas phase. Nanoscale, 2020, 12, 12602-12612.	2.8	14
21	In vitrodigestion of food grade TiO₂(E171) and TiO₂nanoparticles: physicochemical characterization and impact on the activity of digestive enzymes. Food and Function, 2021, 12, 5975-5988.	2.1	13
22	Facile route to gold-graphene electrodes by exfoliation of natural graphite under electrochemical conditions. Carbon, 2016, 107, 823-830.	5.4	8
23	Plasmonic properties of an Ag@Ag₂Mo₂O₇ hybrid nanostructure easily designed by solid-state photodeposition from very thin Ag₂Mo₂O₇ nanowires. Journal of Materials Chemistry C, 2018, 6, 11086-11095.	2.7	8
24	Investigation of copper oxidation states in plasmonic nanomaterials by XAS and Raman spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 2193-2199.	1.3	7
25	Accurate ÂRaman characterization of reaction products at the surface of (bio)oxidized pyrite. American Mineralogist, 2010, 95, 1730-1740.	0.9	6
26	Alpha localized radiolysis and corrosion mechanisms at the iron/water interface: Role of molecular species. Journal of Nuclear Materials, 2013, 433, 124-131.	1.3	6
27	Sub-Micron Spatial Resolution in Far-Field Raman Imaging Using Positivity-Constrained Super-Resolution. Applied Spectroscopy, 2019, 73, 902-909.	1.2	6
28	Silica based ionogels: interface effects with aprotic and protic ionic liquids with lithium. Physical Chemistry Chemical Physics, 2020, 22, 24051-24058.	1.3	6
29	Surface Modification of Au Nanoparticles with Heteroleptic Cu(I) Diimine Complexes. Journal of Physical Chemistry C, 2020, 124, 11902-11912.	1.5	5
30	Linear chains of Ag nanoparticles embedded in dielectric films for SERS applications in analytical chemistry. Nanoscale Advances, 2021, 3, 6719-6727.	2.2	5
31	A step towards controlled-diameter single walled carbon nanotubes. Carbon, 2014, 67, 753-765.	5.4	4
32	Voltammetry of Microparticles and in situ microRaman measurements under potentiostatic conditions. I. Spectroelectrochemical behaviour of Prussian blue, PbO and Bi2O3. Electrochimica Acta, 2017, 257, 128-137.	2.6	4
33	Electrical behavior of nickel/carbon nanocomposite thin films. Carbon, 2017, 111, 878-886.	5.4	4
34	Nanoscale Spatial Resolution in Far-Field Raman Imaging Using Hyperspectral Unmixing in Combination with Positivity Constrained Super-Resolution. Applied Spectroscopy, 2020, 74, 780-790.	1.2	4
35	Radiolytic corrosion of uranium dioxide induced by He2+ localized irradiation of water: Role of the produced H2O2 distance. Journal of Nuclear Materials, 2015, 467, 832-839.	1.3	3
36	Atomic Force Microscopy Nanomanipulation by Confocal Raman Multiwavelength Spectroscopy: Application at the Monitoring of Resonance Profile Excitation Changes of Manipulated Carbon Nanotube. Journal of Physical Chemistry C, 2020, 124, 2705-2711.	1.5	2

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37	Vectorial method used to monitor an evolving system: Titanium oxide thin films under UV illumination. Applied Surface Science, 2018, 447, 528-534.	3.1	1
38	Chemisorbed nickel catalyst for the production of SWCNTs with a very narrow size distribution. Physica Status Solidi (B): Basic Research, 2013, 250, 2581-2585.	0.7	0
39	A tris-oxovanadium pyrogallate complex: synthesis, structure, and magnetic and electronic properties. Dalton Transactions, 2021, 50, 13399-13406.	1.6	0
40	Improving the rate of the copper-catalyzed Henry reaction by surface plasmon excitation of gold nanoparticles. Catalysis Science and Technology, 2021, 11, 7875-7885.	2.1	0