

# Jean-Philippe Renault

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,487  
citations

331670

21  
h-index

330143

37  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2208  
citing authors

#	ARTICLE	IF	CITATIONS
1	The reaction of coumarin with the OH radical revisited: hydroxylation product analysis determined by fluorescence and chromatography. <i>Radiation Physics and Chemistry</i> , 2005, 72, 119-124.	2.8	231
2	Series of Mn Complexes Based on N-Centered Ligands and Superoxide - Reactivity in an Anhydrous Medium and SOD-Like Activity in an Aqueous Medium Correlated to MnII/MnIII Redox Potentials. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 3513-3523.	2.0	98
3	Structural Determinants for Protein adsorption/non-adsorption to Silica Surface. <i>PLoS ONE</i> , 2013, 8, e81346.	2.5	95
4	RNA-binding proteins are a major target of silica nanoparticles in cell extracts. <i>Nanotoxicology</i> , 2016, 10, 1555-1564.	3.0	86
5	Radiolysis of Confined Water: Hydrogen Production at a High Dose Rate. <i>ChemPhysChem</i> , 2005, 6, 2585-2596.	2.1	67
6	Radiolysis of Confined Water: Production and Reactivity of Hydroxyl Radicals. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 110-112.	13.8	54
7	Finite Size Effects on Hydrogen Bonds in Confined Water. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8033-8035.	13.8	42
8	Proteinâ€“Nanoparticle Interactions: What Are the Proteinâ€“Corona Thickness and Organization?. <i>Langmuir</i> , 2019, 35, 10831-10837.	3.5	40
9	<i>In Situ</i> Analysis of Weakly Bound Proteins Reveals Molecular Basis of Soft Corona Formation. <i>ACS Nano</i> , 2020, 14, 9073-9088.	14.6	38
10	EPR and Ligand Field Studies of Iron Superoxide Dismutases and Iron-Substituted Manganese Superoxide Dismutases: Relationships between Electronic Structure of the Active Site and Activity. <i>Inorganic Chemistry</i> , 2000, 39, 2666-2675.	4.0	33
11	Myoglobin on Silica: A Case Study of the Impact of Adsorption on Protein Structure and Dynamics. <i>Langmuir</i> , 2013, 29, 13465-13472.	3.5	32
12	Radiolytic Events in Nanostructured Aluminum Hydroxides. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6365-6373.	3.1	29
13	Protein Corona Composition of Silica Nanoparticles in Complex Media: Nanoparticle Size does not Matter. <i>Nanomaterials</i> , 2020, 10, 240.	4.1	29
14	High-Throughput Evaluation of Antioxidant and Pro-oxidant Activities of Polyphenols with Thymidine Protection Assays. <i>ChemBioChem</i> , 2005, 6, 1234-1241.	2.6	28
15	H <sub>2</sub> formation by electron irradiation of SBA-15 materials and the effect of CuII grafting. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14188.	2.8	27
16	Structure and Function of Adsorbed Hemoglobin on Silica Nanoparticles: Relationship between the Adsorption Process and the Oxygen Binding Properties. <i>Langmuir</i> , 2017, 33, 3241-3252.	3.5	27
17	From Protein Corona to Colloidal Self-Assembly: The Importance of Protein Size in Proteinâ€“Nanoparticle Interactions. <i>Langmuir</i> , 2020, 36, 8218-8230.	3.5	26
18	A Pulse Radiolysis Study of Catalytic Superoxide Radical Dismutation by a Manganese(II) Complex with an N-Tripodal Ligand. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 2789-2793.	2.0	25

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19	A Powerful Antiradiation Compound Revealed by a New High-Throughput Screening Method. <i>ChemBioChem</i> , 2004, 5, 832-840.	2.6	23
20	Nanosecond Pulse Radiolysis of Nanoconfined Water. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13104-13110.	3.1	22
21	Improving <sup>131</sup> I Radioiodine Therapy By Hybrid Polymer-Grafted Gold Nanoparticles. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 7933-7946.	6.7	22
22	Ab initio study of Cd <sup>2+</sup> thiol complexes: application to the modelling of the metallothionein active site. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 3762-3767.	2.8	21
23	First coupling between a LINAC and FT-IR spectroscopy: The aqueous ferrocyanide system. <i>Chemical Physics Letters</i> , 2006, 426, 71-76.	2.6	21
24	Radiolysis of water in nanoporous gold. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12868.	2.8	21
25	Hydrogen radiolytic release from zeolite 4A/water systems under $\hat{\gamma}$ irradiations. <i>Radiation Physics and Chemistry</i> , 2015, 110, 6-11.	2.8	21
26	Time-Resolved Studies of Water Dynamics and Proton Transfer at the Alumina <sup>+</sup> Air Interface. <i>Journal of the American Chemical Society</i> , 2007, 129, 11720-11729.	13.7	20
27	Synthesis and antioxidant properties of pulvinic acids analogues. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 7931-7939.	3.0	20
28	Dynamics of Water Confined in Clay Minerals. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12916-12925.	3.1	20
29	Manipulating hemoglobin oxygenation using silica nanoparticles: a novel prospect for artificial oxygen carriers. <i>Blood Advances</i> , 2018, 2, 90-94.	5.2	20
30	Determination of hydroxyl rate constants by a high-throughput fluorimetric assay: towards a unified reactivity scale for antioxidants. <i>Analyst</i> , 2009, 134, 250-255.	3.5	19
31	Interferences of Silica Nanoparticles in Green Fluorescent Protein Folding Processes. <i>Langmuir</i> , 2016, 32, 195-202.	3.5	19
32	How Do Surface Properties of Nanoparticles Influence Their Diffusion in the Extracellular Matrix? A Model Study in Matrigel Using Polymer-Grafted Nanoparticles. <i>Langmuir</i> , 2020, 36, 10460-10470.	3.5	19
33	Hydrated Electron Production by Reaction of Hydrogen Atoms with Hydroxide Ions: A First-Principles Molecular Dynamics Study. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7027-7034.	2.5	18
34	Tuning hydrogen production during oxide irradiation through surface grafting. <i>Journal of Materials Chemistry</i> , 2009, 19, 4261.	6.7	15
35	Carbon-Centered Radicals Can Transfer Hydrogen Atoms between Amino Acid Side Chains. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2960-2963.	13.8	15
36	The effect of myoglobin crowding on the dynamics of water: an infrared study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22841-22852.	2.8	14

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37	Efficient hydrogen production from irradiated aluminum hydroxides. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 3737-3743.	7.1	14
38	Ionizing radiation induces a Yap1-dependent peroxide stress response in yeast. <i>Free Radical Biology and Medicine</i> , 2007, 43, 136-144.	2.9	13
39	Thermochromic Conformational Change of <i>Methanobacterium thermoautotrophicum</i> Iron Superoxide Dismutase. <i>Inorganic Chemistry</i> , 1999, 38, 614-615.	4.0	10
40	Interaction of TiO <sub>2</sub> nanoparticles with proteins from aquatic organisms: the case of gill mucus from blue mussel. <i>Environmental Science and Pollution Research</i> , 2017, 24, 13474-13483.	5.3	10
41	Albumin-driven disassembly of lipidic nanoparticles: the specific case of the squalene-adenosine nanodrug. <i>Nanoscale</i> , 2020, 12, 2793-2809.	5.6	9
42	Paramagnetic NMR spectroscopy of native and cobalt substituted manganese superoxide dismutase from <i>Escherichia coli</i> . <i>FEBS Letters</i> , 1997, 401, 15-19.	2.8	8
43	In Situ Electron-Beam Polymerization Stabilized Quantum Dot Micelles. <i>Langmuir</i> , 2011, 27, 4358-4361.	3.5	8
44	Effect of pressure on pulse radiolysis reduction of proteins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1724, 432-439.	2.4	6
45	Water reduction by photoexcited silica and alumina. <i>Chemical Communications</i> , 2010, 46, 2394.	4.1	6
46	H <sub>2</sub> production through oxide irradiation: Comparison of gamma rays and vacuum ultraviolet excitation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3889-3897.	7.1	6
47	VUV grafting: an efficient method for 3D bulk patterning of polymer sheets. <i>Polymer Chemistry</i> , 2014, 5, 2990-2996.	3.9	6
48	Oxadiazole-C <sub>2</sub> Thiol Adsorption on Gold Nanorods: A Joint Theoretical and Experimental Study by Using SERS, XPS, and DFT. <i>ChemPhysChem</i> , 2014, 15, 3646-3654.	2.1	4
49	Importance of Post-translational Modifications in the Interaction of Proteins with Mineral Surfaces: The Case of Arginine Methylation and Silica surfaces. <i>Langmuir</i> , 2018, 34, 5312-5322.	3.5	4
50	Combining surface chemistry modification and <i>in situ</i> small-angle scattering characterization to understand and optimize the biological behavior of nanomedicines. <i>Journal of Materials Chemistry B</i> , 2020, 8, 6438-6450.	5.8	4
51	Footprinting of Protein Interactions by Tritium Labeling. <i>Biochemistry</i> , 2010, 49, 4297-4299.	2.5	3
52	Water splitting by infrared femtosecond laser excitation of surface plasmon. <i>Chemical Physics Letters</i> , 2013, 558, 31-35.	2.6	3
53	The nano-bio interface mapped by oxidative footprinting of the adsorption sites of myoglobin. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 8037-8040.	3.7	3
54	A microfluidic dosimetry cell to irradiate solutions with poorly penetrating radiations: a step towards online dosimetry for synchrotron beamlines. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 778-789.	2.4	3

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55	Seeing the solvated electron in action: First-principles molecular dynamics of NO <sub>3</sub> <sup>•-</sup> and N <sub>2</sub> O reduction. <i>Radiation Physics and Chemistry</i> , 2022, 190, 109810.	2.8	3
56	Relation between frequency and H bond length in heavy water: Towards the understanding of the unusual properties of H bond dynamics in nanoporous media. <i>Journal of Physics: Conference Series</i> , 2009, 177, 012012.	0.4	1
57	<i>Infrared Spectroscopy and Radiation Chemistry</i> . , 2010, , 201-229.		1
58	<i>Radiolysis of Water Confined in Nanoporous Materials</i> . , 2010, , 325-345.		0