

# Eric Renault

## List of Publications by Year in descending order

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47  
papers

1,052  
citations

567281

15  
h-index

414414

32  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1307  
citing authors

#	ARTICLE	IF	CITATIONS
1	The p <i>K</i> <sub>BHX</sub> Database: Toward a Better Understanding of Hydrogen-Bond Basicity for Medicinal Chemists. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 4073-4086.	6.4	276
2	An Enthalpic Scale of Hydrogen-Bond Basicity. 4. Carbon Ñ Bases, Oxygen Bases, and Miscellaneous Second-Row, Third-Row, and Fourth-Row Bases and a Survey of the 4-Fluorophenol Affinity Scale. <i>Journal of Organic Chemistry</i> , 2010, 75, 4105-4123.	3.2	79
3	Astatine Standard Redox Potentials and Speciation in Acidic Medium. <i>Journal of Physical Chemistry A</i> , 2010, 114, 576-582.	2.5	65
4	Assessment of an effective quasirelativistic methodology designed to study astatine chemistry in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14984.	2.8	56
5	Transient charge carrier distribution at UV-photoexcited SiO <sub>2</sub> /Si interfaces. <i>Physical Review B</i> , 2000, 61, R5070-R5073.	3.2	51
6	Cytosine excited state dynamics studied by femtosecond fluorescence upconversion and transient absorption spectroscopy. <i>Chemical Physics Letters</i> , 2003, 380, 173-180.	2.6	51
7	QTAIM Analysis in the Context of Quasirelativistic Quantum Calculations. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 4830-4841.	5.3	51
8	First lasing and initial performance of the European UV/VUV storage ring FEL at ELETTRA. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 475, 20-27.	1.6	45
9	Introducing the ELF Topological Analysis in the Field of Quasirelativistic Quantum Calculations. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2985-2990.	5.3	43
10	The electron affinity of astatine. <i>Nature Communications</i> , 2020, 11, 3824.	12.8	42
11	European project to develop a UV/VUV free-electron laser facility on the ELETTRA storage ring. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 429, 179-184.	1.6	31
12	The Exceptional Hydrogen-Bond Properties of Neutral and Protonated Lobeline. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6397-6405.	2.5	22
13	Synthesis and Structures of Plutonyl Nitrate Complexes: Is Plutonium Heptavalent in PuO <sub>3</sub> (NO <sub>3</sub> ) <sub>2</sub> <sup>+</sup> ? <i>Inorganic Chemistry</i> , 2015, 54, 2367-2373.	4.0	19
14	Spectroscopic study of the interaction of pazelliptine with nucleic acids. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1997, 40, 218-227.	3.8	18
15	Polyaminoquinoline Iron Chelators for Vectorization of Antiproliferative Agents: Design, Synthesis, and Validation. <i>Bioconjugate Chemistry</i> , 2012, 23, 1952-1968.	3.6	16
16	The European UV/VUV storage ring FEL at ELETTRA: first operation and future prospects. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 34-37.	1.6	14
17	Proton and charge transfer in the intercalating antitumour drug pazelliptine. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1996, , 1767.	0.9	13
18	Towards the Fourier limit on the super-ACO Storage Ring FEL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 475, 229-233.	1.6	12

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19	Local energy exchange in a storage-ring free-electron laser. <i>Physical Review E</i> , 2001, 64, 026502.	2.1	12
20	Electrochemical Synthesis and Characterisation of Alternating Tripyridylâ€Dipyrrole Molecular Strands with Multiple Nitrogenâ€Based Donorâ€Acceptor Binding Sites. <i>Chemistry - A European Journal</i> , 2010, 16, 11876-11889.	3.3	12
21	Theoretical Study of the Structures and Hydrogen-Bond Properties of New Alternated Heterocyclic Compounds. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6413-6422.	2.5	12
22	Heptavalent Neptunium in a Gas-Phase Complex: (Np <sup>VII</sup> O <sub>3</sub> ) <sup>+</sup> (NO <sub>3</sub> ) <sub>2</sub> . <i>Inorganic Chemistry</i> , 2016, 55, 9830-9837.	4.0	12
23	Applications of UV-storage ring free electron lasers: the case of super-ACO. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 429, 489-496.	1.6	11
24	Selenoxides Are Better Hydrogen-Bond Acceptors than Sulfoxides: A Crystallographic Database and Theoretical Investigation. <i>Journal of Physical Chemistry A</i> , 2004, 108, 7232-7240.	2.5	11
25	Inter-dependence of the electron beam excitations with the free electron laser stability on the super-ACO storage ring. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 429, 165-171.	1.6	10
26	Synthesis and Characterization of a Stable Copper(I) Complex for Radiopharmaceutical Applications. <i>ChemPlusChem</i> , 2014, 79, 1284-1293.	2.8	9
27	Two-photon ionisation of the antitumor drug pazelliptine (BD40) by 355 nm laser photolysis. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1993, 21, 203-209.	3.8	7
28	Triplet excited-state characterization and determination of the photoionization mechanism of the antitumoral drug pazelliptine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1995, 90, 95-102.	3.9	6
29	Baseâ€specific Photocleavage of DNA Induced by Pazelliptine Sensitization: Study of the Mechanism by Timeâ€resolved Absorption and Fluorescence. <i>Photochemistry and Photobiology</i> , 1999, 70, 829-840.	2.5	6
30	<title>Two-color experiments combining the UV storage ring free-electron laser and the SA5 IR beamline at Super-ACO</title>. , 1999, , .		6
31	Super ACO FEL oscillation at 300 nm. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 445, 143-148.	1.6	5
32	<title>UV dielectric multilayer mirrors for free-electron lasers</title>. , 1999, 3738, 354.		4
33	<title>Toward resistant UV mirrors at 200 nm for free electron lasers: manufacture, characterizations, and degradation tests</title>. , 2000, , .		4
34	Transient absorption spectroscopy using the super-ACO storage ring FEL. , 2000, , .		4
35	Quantum Chemical Topology in the Field of Quasirelativistic Quantum Calculations. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2016, , 553-582.	0.6	4
36	Controlling Cationâ€Cation Interactions in Uranyl Coordination Dimers by Varying the Length of the Dicarboxylate Linker. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 4465-4476.	2.0	3

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37	Achromatic damage investigations on mirrors for UV-free electron lasers. , 2001, , .		2
38	The super-ACO free electron laser source in the UV and its applications. Radiation Physics and Chemistry, 2001, 61, 449-450.	2.8	2
39	Transient absorption spectroscopy in biology using the Super-ACO storage ring FEL and the synchrotron radiation combination. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 475, 617-624.	1.6	1
40	Gamma rays produced by inverse Compton scattering in the Super-ACO storage ring free electron laser. Radiation Physics and Chemistry, 2001, 61, 351-352.	2.8	1
41	UV/VUV FREE ELECTRON LASER OSCILLATORS AND APPLICATIONS IN MATERIALS SCIENCE. Surface Review and Letters, 2002, 09, 599-607.	1.1	1
42	Structural features and protonation site of epibatidine in the gas phase: an investigation through infrared multiphoton dissociation spectroscopy and computational chemistry. Physical Chemistry Chemical Physics, 2011, 13, 2272-2277.	2.8	1
43	Characterization of Uranyl Coordinated by Equatorial Oxygen: Oxo in $UO_3$ versus Oxyl in $UO_3^{+}$ . Journal of Physical Chemistry A, 2021, 125, 5544-5555.	2.5	1
44	Radical chemistry of the antitumor drug pazelliptine (PZE) in aqueous solution or intercalated in poly(dA)-poly(dT). Journal De Chimie Physique Et De Physico-Chimie Biologique, 1996, 93, 194-202.	0.2	1
45	Applications in biology with the super-ACO FEL and future prospects. , 2002, 4633, 210.		0
46	Storage ring based FELs in Europe: Perspectives for new UV-VUV coherent sources. European Physical Journal Special Topics, 2001, 11, Pr2-245-Pr2-249.	0.2	0
47	Le laser Ålectrons libres UV de super-ACO : source et applications. European Physical Journal Special Topics, 2001, 11, Pr7-45-Pr7-46.	0.2	0