

# Sebastien Villaume

## List of Publications by Year in descending order

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18  
papers

10,818  
citations

759233

12  
h-index

839539

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

9938  
citing authors

#	ARTICLE	IF	CITATIONS
1	The ERA5 global reanalysis: Preliminary extension to 1950. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 4186-4227.	2.7	189
2	The ERA5 global reanalysis. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1999-2049.	2.7	10,272
3	Noradrenaline and a Thiol Analogue on Gold Surfaces: An Infrared Reflection~Absorption Spectroscopy, X-ray Photoelectron Spectroscopy, and Near-Edge X-ray Absorption Fine Structure Spectroscopy Study. Journal of Physical Chemistry C, 2011, 115, 165-175.	3.1	15
4	On the Importance of Clar Structures of Polybenzenoid Hydrocarbons as Revealed by the $\pi$ -Contribution to the Electron Localization Function. Symmetry, 2010, 2, 1653-1682.	2.2	41
5	Linear complex polarization propagator in a four-component Kohn~Sham framework. Journal of Chemical Physics, 2010, 133, 064105.	3.0	33
6	Near sulfur L-edge X-ray absorption spectra of methanethiol in isolation and adsorbed on a Au(111) surface: a theoretical study using the four-component static exchange approximation. Physical Chemistry Chemical Physics, 2010, 12, 5596.	2.8	16
7	On circular dichroism and the separation between chromophore and chiral center: The near carbon K~edge X~ray absorption and circular dichroism spectra of noradrenaline and $\alpha$ -DOPA. Chirality, 2009, 21, E13-9.	2.6	17
8	Aromaticity Changes along the Lowest-Triplet-State Path for C~C Bond Rotation of Annuleny-Substituted Olefins Probed by the Electron Localization Function. Journal of Physical Chemistry A, 2009, 113, 12304-12310.	2.5	22
9	Triplet~State Aromaticity of $4n$ ~Electron Monocycles: Analysis of Bifurcation in the $\pi$ Contribution to the Electron Localization Function. ChemPhysChem, 2008, 9, 257-264.	2.1	59
10	Photoinduced bond cleavage in CH <sub>3</sub> ReO <sub>3</sub> : excited state dynamics. New Journal of Chemistry, 2008, 32, 1904.	2.8	6
11	Theoretical study of the electronic structure of MCH <sub>2</sub> <sup>+</sup> (M=Fe,Co,Ni). Journal of Chemical Physics, 2007, 126, 154318.	3.0	10
12	A coupled cluster study of the electronic spectroscopy and photochemistry of Cr(CO) <sub>6</sub> . Physical Chemistry Chemical Physics, 2007, 9, 6115.	2.8	46
13	Structure, Spectra, and Rearrangement Mechanism of PH <sub>2</sub> F <sub>3</sub> : Revisiting a Classic Problem in Structural Inorganic Chemistry. Journal of Physical Chemistry A, 2007, 111, 2220-2228.	2.5	3
14	Photoactivity and UV Absorption Spectroscopy of RCo(CO) <sub>4</sub> (R = H, CH <sub>3</sub> ) Organometallic Complexes. Journal of Physical Chemistry A, 2007, 111, 4737-4742.	2.5	11
15	A multi state-CASPT2 vs. TD-DFT study of the electronic excited states of RCo(CO) <sub>4</sub> (R=H, CH <sub>3</sub> ) organometallic complexes. Chemical Physics Letters, 2006, 417, 545-549.	2.6	10
16	The electronic spectroscopy of transition metal carbonyls: The tough case of Cr(CO) <sub>6</sub> . Chemical Physics Letters, 2006, 421, 378-382.	2.6	38
17	Emission spectroscopy of metal-to-ligand-charge-transfer states of HRe(CO) <sub>3</sub> (H-dab), model system for $\pi$ -diimine rhenium tricarbonyl complexes. Comptes Rendus Chimie, 2005, 8, 1453-1460.	0.5	3
18	Quantum chemical study of the electronic structure of NiCH <sub>2</sub> <sup>+</sup> in its ground state and low-lying electronic excited states. Journal of Chemical Physics, 2005, 122, 044313.	3.0	27