

# Roland Bastardis

## List of Publications by Year in descending order

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10  
papers

537  
citations

1039406

9  
h-index

1372195

10  
g-index

10  
all docs

10  
docs citations

10  
times ranked

583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal Theoretical Approach to Extract Anisotropic Spin Hamiltonians. Journal of Chemical Theory and Computation, 2009, 5, 2977-2984.	2.3	270
2	Rigorous Extraction of the Anisotropic Multispin Hamiltonian in Bimetallic Complexes from the Exact Electronic Hamiltonian. Journal of Chemical Theory and Computation, 2010, 6, 55-65.	2.3	76
3	Microscopic origin of isotropic non-Heisenberg behavior in $S=1$ magnetic systems. Physical Review B, 2007, 76, .	1.1	48
4	Isotropic non-Heisenberg terms in the magnetic coupling of transition metal complexes. Journal of Chemical Physics, 2008, 129, 104102.	1.2	43
5	Is it possible to determine rigorous magnetic Hamiltonians in spin $s=1$ systems from density functional theory calculations?. Journal of Chemical Physics, 2008, 129, 154110.	1.2	23
6	Possible use of DFT approaches for the determination of double exchange interactions. Theoretical Chemistry Accounts, 2010, 126, 231-241.	0.5	19
7	Competition between double exchange and purely magnetic Heisenberg models in mixed valence systems: Application to half-doped manganites. Journal of Chemical Physics, 2006, 125, 194708.	1.2	18
8	<i>Ab initio</i> study of the CE magnetic phase in half-doped manganites: Purely magnetic versus double exchange description. Physical Review B, 2008, 77, .	1.1	18
9	<i>Ab initio</i> study of the Zener polaron spectrum of half-doped manganites: Comparison of several model Hamiltonians. Physical Review B, 2006, 74, .	1.1	14
10	Relation between double exchange and Heisenberg model spectra: Application to the half-doped manganites. Physical Review B, 2007, 75, .	1.1	8