Naoya Iwahara

List of Publications by Year
in descending order

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Version: 2024-02-01

38 papers	479 citations	687363 13 h-index	713466 21 g-index
38 all docs	38 docs citations	38 times ranked	674 citing authors

#	Article	IF	Citations
1	Multipolar exchange interaction and complex order in insulating lanthanides. Physical Review B, 2022, 105, .	3.2	3
2	Jahn-Teller effect in the cubic fullerides A3C60. Physical Review B, 2021, 103, .	3.2	3
3	Yu-Shiba-Rusinov bands in ferromagnetic superconducting diamond. Science Advances, 2020, 6, eaaz2536.	10.3	9
4	Magnetic Anisotropy in Divalent Lanthanide Compounds. Angewandte Chemie, 2020, 132, 12820-12824.	2.0	5
5	Magnetic Anisotropy in Divalent Lanthanide Compounds. Angewandte Chemie - International Edition, 2020, 59, 12720-12724.	13.8	29
6	Ferromagnetic kinetic exchange interaction in magnetic insulators. Physical Review Research, 2020, 2, .	3.6	10
7	Toward a Microscopic Understanding of the Magnetization Behavior of a Multimolecular Single Crystal of Radical-Bridged [Dy^{III}₄] Cubane Units: A Joint Ab Initio, Micro-Superconducting Quantum Interference Device, and Electron Paramagnetic Resonance Study. Journal of Physical Chemistry C, 2018, 122, 11128-11135.	3.1	4
8	Berry phase of adiabatic electronic configurations in fullerene anions. Physical Review B, 2018, 97, .	3.2	3
9	Dynamical Jahn-Teller effect of fullerene anions. Physical Review B, 2018, 97, .	3.2	13
10	Manifestation of vibronic dynamics in infrared spectra of Mott insulating fullerides. Physical Review B, 2018, 98, .	3.2	5
11	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mover accent="true"><mml:mi>J</mml:mi><mml:mo>ĵ</mml:mo></mml:mover></mml:math> -pseudospin states and the crystal field of cubic systems. Physical Review B, 2018, 98, .	3.2	10
12	Quadratic Jahn-Teller effect of fullerene anions. Physical Review B, 2018, 98, .	3.2	5
13	Spin-orbital-lattice entangled states in cubic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>d</mml:mi><mml:mn>1</mml:mn></mml:msup></mml:m double perovskites. Physical Review B, 2018, 98, .	3.2	20
14	Interplay of spin-dependent delocalization and magnetic anisotropy in the ground and excited states of [Gd2@C78]â˜ and [Gd2@C80]â˜. Journal of Chemical Physics, 2017, 147, 124305.	3.0	10
15	Zeeman interaction and Jahn-Teller effect in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Î“</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:math> multiplet. Physical Review B, 2017, 96, .	3.2	14
16	Andrew Liehr and the structure of Jahn-Teller surfaces. Journal of Physics: Conference Series, 2017, 833, 012008.	0.4	2
17	New mechanism of kinetic exchange interaction induced by strong magnetic anisotropy. Scientific Reports, 2016, 6, 24743.	3.3	11
18	Giant exchange interaction in mixed lanthanides. Scientific Reports, 2016, 6, 24046.	3.3	54

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19	Orbital disproportionation of electronic density is a universal feature of alkali-doped fullerides. Nature Communications, 2016, 7, 13093.	12.8	15
20	Ising exchange interaction in lanthanides and actinides. New Journal of Physics, 2015, 17, 103028.	2.9	20
21	Exchange interaction between<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>J</mml:mi></mml:math>multiplets. Physical Review B, 2015, 91, .	3.2	55
22	Dynamical Jahn-Teller instability in metallic fullerides. Physical Review B, 2015, 91, .	3.2	11
23	Dynamical Jahn-Teller Effect and Antiferromagnetism inCs3C60. Physical Review Letters, 2013, 111, 056401.	7.8	22
24	Vibronically induced activation mechanism in photocatalysis of highly dispersed vanadium oxide supported on silica, V2O5/SiO2: Evidence in phosphorescence spectra. Chemical Physics Letters, 2013, 584, 63-66.	2.6	1
25	Vibronic couplings in <mml:math altimg="si21.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	2.6	2
26	Vibronic coupling density and related concepts. Journal of Physics: Conference Series, 2013, 428, 012010.	0.4	22
27	Vibronic couplings in cycloadditions to fullerenes. Journal of Physics: Conference Series, 2013, 428, 012003.	0.4	7
28	Vibronic bands in the HOMO-LUMO excitation of linear polyyne molecules. Journal of Physics: Conference Series, 2013, 428, 012004.	0.4	6
29	Effect of Coulomb interactions on the vibronic couplings in ${m C}_{60}^-$C60â^. Journal of Chemical Physics, 2012, 136, 174315.	3.0	8
30	Critical reinvestigation of vibronic couplings in picene from view of vibronic coupling density analysis. Physical Review B, 2012, 85, .	3.2	6
31	Mechanisms of localization in isotope-substituted dynamical Jahn-Teller systems. Europhysics Letters, 2012, 100, 43001.	2.0	2
32	C60 bearing ethylene moieties. Chemical Physics Letters, 2012, 531, 257-260.	2.6	23
33	Molecular design for high-spin molecules in view of vibronic couplings. Polyhedron, 2011, 30, 3048-3053.	2.2	1
34	Vibronic interactions in hole-transporting molecules: An interplay with electronâ€“hole interactions. Chemical Physics Letters, 2011, 507, 151-156.	2.6	3
35	Estimation of the Vibronic Coupling Constants of Fullerene Monoanion: Comparison Between Experimental and Simulated Results. Progress in Theoretical Chemistry and Physics, 2011, , 245-264.	0.2	1
36	Vibronic coupling in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mtext>C</mml:mtext><mml:mrow><mml:mn>60</mml:mn></mml:mrow><mml:m revisited: Derivations from photoelectron spectra and DFT calculations. Physical Review B, 2010, 82, .	3.2	36

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37	Active Center Induced by Vibronic Interactions in V2O5/SiO2. Topics in Catalysis, 2009, 52, 808-812.	2.8	4
38	Vibronic Coupling Constant and Vibronic Coupling Density. Springer Series in Chemical Physics, 2009, , 99-129.	0.2	24