

# Naoya Iwahara

## List of Publications by Year in descending order

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38  
papers

479  
citations

687363

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h-index

713466

21  
g-index

38  
all docs

38  
docs citations

38  
times ranked

674  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exchange interaction between $J$ multiplets. Physical Review B, 2015, 91, .	3.2	55
2	Giant exchange interaction in mixed lanthanides. Scientific Reports, 2016, 6, 24046.	3.3	54
3	Vibronic coupling in $C_{60}$ revisited: Derivations from photoelectron spectra and DFT calculations. Physical Review B, 2010, 82, .	3.1	26
4	Magnetic Anisotropy in Divalent Lanthanide Compounds. Angewandte Chemie - International Edition, 2020, 59, 12720-12724.	13.8	29
5	Vibronic Coupling Constant and Vibronic Coupling Density. Springer Series in Chemical Physics, 2009, , 99-129.	0.2	24
6	C60 bearing ethylene moieties. Chemical Physics Letters, 2012, 531, 257-260.	2.6	23
7	Dynamical Jahn-Teller Effect and Antiferromagnetism in Cs <sub>3</sub> C <sub>60</sub> . Physical Review Letters, 2013, 111, 056401.	7.8	22
8	Vibronic coupling density and related concepts. Journal of Physics: Conference Series, 2013, 428, 012010.	0.4	22
9	Ising exchange interaction in lanthanides and actinides. New Journal of Physics, 2015, 17, 103028.	2.9	20
10	Spin-orbital-lattice entangled states in cubic double perovskites. Physical Review B, 2018, 98, .	4.2	14
11	Orbital disproportionation of electronic density is a universal feature of alkali-doped fullerides. Nature Communications, 2016, 7, 13093.	12.8	15
12	Zeeman interaction and Jahn-Teller effect in the $8\Gamma_6$ multiplet. Physical Review B, 2017, 96, .	3.2	14
13	Dynamical Jahn-Teller effect of fullerene anions. Physical Review B, 2018, 97, .	3.2	13
14	Dynamical Jahn-Teller instability in metallic fullerides. Physical Review B, 2015, 91, .	3.2	11
15	New mechanism of kinetic exchange interaction induced by strong magnetic anisotropy. Scientific Reports, 2016, 6, 24743.	3.3	11
16	Interplay of spin-dependent delocalization and magnetic anisotropy in the ground and excited states of [Gd <sub>2</sub> @C <sub>78</sub> ] <sup>-</sup> and [Gd <sub>2</sub> @C <sub>80</sub> ] <sup>-</sup> . Journal of Chemical Physics, 2017, 147, 124305.	3.0	10
17	$J$ -pseudospin states and the crystal field of cubic systems. Physical Review B, 2018, 98, .	3.2	10
18	Ferromagnetic kinetic exchange interaction in magnetic insulators. Physical Review Research, 2020, 2, .	3.6	10

#	ARTICLE	IF	CITATIONS
19	Yu-Shiba-Rusinov bands in ferromagnetic superconducting diamond. <i>Science Advances</i> , 2020, 6, eaaz2536.	10.3	9
20	Effect of Coulomb interactions on the vibronic couplings in $C_{60}$ . <i>Journal of Chemical Physics</i> , 2012, 136, 174315.	3.0	8
21	Vibronic couplings in cycloadditions to fullerenes. <i>Journal of Physics: Conference Series</i> , 2013, 428, 012003.	0.4	7
22	Critical reinvestigation of vibronic couplings in picene from view of vibronic coupling density analysis. <i>Physical Review B</i> , 2012, 85, .	3.2	6
23	Vibronic bands in the HOMO-LUMO excitation of linear polyyne molecules. <i>Journal of Physics: Conference Series</i> , 2013, 428, 012004.	0.4	6
24	Manifestation of vibronic dynamics in infrared spectra of Mott insulating fullerides. <i>Physical Review B</i> , 2018, 98, .	3.2	5
25	Quadratic Jahn-Teller effect of fullerene anions. <i>Physical Review B</i> , 2018, 98, .	3.2	5
26	Magnetic Anisotropy in Divalent Lanthanide Compounds. <i>Angewandte Chemie</i> , 2020, 132, 12820-12824.	2.0	5
27	Active Center Induced by Vibronic Interactions in $V_2O_5/SiO_2$ . <i>Topics in Catalysis</i> , 2009, 52, 808-812.	2.8	4
28	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. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11128-11135.	3.1	4
29	Vibronic interactions in hole-transporting molecules: An interplay with electron-hole interactions. <i>Chemical Physics Letters</i> , 2011, 507, 151-156.	2.6	3
30	Berry phase of adiabatic electronic configurations in fullerene anions. <i>Physical Review B</i> , 2018, 97, .	3.2	3
31	Jahn-Teller effect in the cubic fullerides $A_3C_{60}$ . <i>Physical Review B</i> , 2021, 103, .	3.2	3
32	Multipolar exchange interaction and complex order in insulating lanthanides. <i>Physical Review B</i> , 2022, 105, .	3.2	3
33	Mechanisms of localization in isotope-substituted dynamical Jahn-Teller systems. <i>Europhysics Letters</i> , 2012, 100, 43001.	2.0	2
34	Vibronic couplings in $C_{60}$ . <i>Journal of Chemical Physics</i> , 2012, 136, 174315.	2.6	2
35	Andrew Lienh and the structure of Jahn-Teller surfaces. <i>Journal of Physics: Conference Series</i> , 2017, 833, 012008.	0.4	2
36	Molecular design for high-spin molecules in view of vibronic couplings. <i>Polyhedron</i> , 2011, 30, 3048-3053.	2.2	1

#	ARTICLE	IF	CITATIONS
37	Vibronically induced activation mechanism in photocatalysis of highly dispersed vanadium oxide supported on silica, V <sub>2</sub> O <sub>5</sub> /SiO <sub>2</sub> : Evidence in phosphorescence spectra. Chemical Physics Letters, 2013, 584, 63-66.	2.6	1
38	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