Victor Polinger

List of Publications by Year
in descending order

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58	834	516710 16	526287 27
papers	citations	h-index	g-index

59	59	59	518
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the origin of dynamic instability of molecular systems. Theoretica Chimica Acta, 1984, 66, 161-172.	0.8	88
2	HâŠ—h: A Jahn-Teller Coupling That Really Does Reduce the Degeneracy of the Ground State. Physical Review Letters, 1996, 77, 4362-4365.	7.8	62
3	Electron Confinement Effects in the EPR Spectra of Colloidal n-Type ZnO Quantum Dots. Journal of Physical Chemistry C, 2008, 112, 14331-14335.	3.1	58
4	Pseudo Jahnâ€“Teller origin of ferroelectric instability in BaTiO3 type perovskites: The Green's function approach and beyond. Physica B: Condensed Matter, 2015, 457, 296-309.	2.7	54
5	The Jahn-Teller effect in icosahedral molecules and complexes. Theoretica Chimica Acta, 1978, 48, 87-101.	0.8	47
6	The second order T-e-t2 problem in the Jahn-Teller effect theory. A new type of adiabatic potential minima and inversion (tunneling) splitting. Physics Letters, Section A: General, Atomic and Solid State Physics, 1973, 44, 495-496.	2.1	34
7	Multimode Jahnâ€Teller effect for an E term with strong vibronic coupling I. Local and resonant states. Physica Status Solidi (B): Basic Research, 1979, 95, 403-411.	1.5	30
8	The pseudo-Jahn-Teller dynamics of central protons in porphins. Chemical Physics, 1984, 86, 57-65.	1.9	27
9	Origin of polar nanoregions and relaxor properties of ferroelectrics. Physical Review B, 2018, 98, .	3.2	25
10	Vibronic Interactions and the Jahn-Teller Effect. Advances in Quantum Chemistry, 1982, , 85-160.	0.8	23
11	Multiple lines of conical intersections and nondegenerate ground state in TâŠ—t2 Jahnâ€“Teller systems. Journal of Chemical Physics, 2000, 112, 8470-8482.	3.0	23
12	Perovskite Crystals: Unique Pseudo-Jahnâ€“Teller Origin of Ferroelectricity, Multiferroicity, Permittivity, Flexoelectricity, and Polar Nanoregions. Condensed Matter, 2020, 5, 68.	1.8	23
13	MO LCAO analysis of the vibronic instability of the CuCl53â^' trigonal bipyramidal configuration. Critical view on the angular overlap model in vibronic problems. Chemical Physics, 1992, 159, 75-87.	1.9	20
14	The linear jahnâ€teller effect for an orbital triplet. Physica Status Solidi (B): Basic Research, 1973, 60, 85-96.	1.5	18
15	A general theory of second-order vibronic reduction factors. Journal of Physics Condensed Matter, 1991, 3, 513-527.	1.8	18
16	Ni-induced local distortions inLa1.85Sr0.15Cu1â^'yNiyO4and their relevance toTcsuppression: An angular-resolved XAFS study. Physical Review B, 2001, 64, .	3.2	17
17	Four-centre Jahn-Teller effect. Molecular Physics, 1984, 52, 1271-1289.	1.7	16
18	Ferroelectric phase transitions in cubic perovskites. Journal of Physics: Conference Series, 2013, 428, 012026.	0.4	16

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19	Pseudo Jahn-Teller effect in permittivity of ferroelectric perovskites. Journal of Physics: Conference Series, 2017, 833, 012012.	0.4	15
20	Off-center instability of Nb5+ in KNbO3 under ambient pressure. Chemical Physics, 2015, 459, 72-80.	1.9	14
21	Pseudo Jahnâ€"Teller origin of square-planar configuration instability of main-group-element hydrides. Journal of Molecular Structure, 1992, 270, 369-380.	3.6	13
22	Multimode jahnâ€teller effect for an Eâ€Term with strong vibronic coupling II. Band shapes of the infrared and raman spectra. Physica Status Solidi (B): Basic Research, 1979, 96, 153-161.	1.5	12
23	A scale transformation in Jahn - Teller systems. Journal of Physics Condensed Matter, 1996, 8, L523-L529.	1.8	11
24	Where do the doped holes go in La[sub 2â^'x]Sr[sub x]CuO[sub 4]? A close look by XAFS. AIP Conference Proceedings, 1999, , .	0.4	11
25	Strong Dependence of Quantum-Dot Delayed Luminescence on Excitation Pulse Width. Journal of Physical Chemistry Letters, 2017, 8, 3997-4003.	4.6	11
26	Multimode Pseudo Jahnâ€Teller Effect for Offâ€Centre Impurities in Crystals. Physica Status Solidi (B): Basic Research, 1984, 125, 401-408.	1.5	10
27	Inversion splitting in the T(X)t2Jahn-Teller system; tunnelling or 'hopping'?. Journal of Physics Condensed Matter, 1993, 5, 2213-2232.	1.8	10
28	Reduction factors for the icosahedralT1uâŠ—hgJahn-Teller system. Physical Review B, 2000, 62, 16155-16166.	3.2	10
29	Vibronic reduction factors for second-order spin-orbit coupling. Journal of Physics Condensed Matter, 1991, 3, 3441-3453.	1.8	9
30	Anisotropy and the inversion splitting in the Jahn - Teller system. Journal of Physics Condensed Matter, 1997, 9, 7119-7134.	1.8	9
31	Effective flexoelectric and flexomagnetic response of ferroics. Solid State Physics, 2019, 70, 237-289.	0.5	9
32	A physical explanation of the ground state crossover in the HâŠ—h Jahnâ€"Teller effect. Journal of Chemical Physics, 2002, 117, 4340-4347.	3.0	8
33	The Effect of Spinâ€"Vibrational Interaction in Magnetic Properties of Exchange Tetraclusters. Physica Status Solidi (B): Basic Research, 1985, 129, 615-624.	1.5	7
34	The Multimode Jahnâ€Teller Effect in the Luminescence Spectrum of the Tetrahedral ²T₂ âŠ— (e + t₂ + t₂) Impurity System ZnS:Cu²⁺. Physica Status Solidi (B): Basic Research, 1986, 137, 241-253.	1.5	6
35	The origin of the isotropic EPR spectrum of a Jahn-Teller impurity in crystals. Solid State Communications, 1981, 38, 795-797.	1.9	5
36	Electronic states of doped holes in La(2â^'x)SrxCuO4: a unique application of XAFS. Journal of Synchrotron Radiation, 1999, 6, 373-375.	2.4	5

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37	An enhanced bonding model for C60 and its ions. Chemical Physics, 2002, 278, 41-51.	1.9	5
38	Tunneling in Jahnâ€“Teller Systems and Multidimensional WKB Approximation. Advances in Quantum Chemistry, 2003, 44, 59-88.	0.8	5
39	Orbital Ordering Versus the Traditional Approach in the Cooperative Jahnâ€“Teller Effect: A Comparative Study. Springer Series in Chemical Physics, 2009, , 685-725.	0.2	5
40	Effects of vibrational intercentre interaction in a trigonal two-centre system with twofold electronic degeneracy at each centre. Molecular Physics, 1990, 70, 1031-1043.	1.7	4
41	Theory of Second-Order Vibronic Reduction Factors for Deep Level Impurieties in Semiconductors. Materials Science Forum, 1992, 83-87, 487-492.	0.3	4
42	Modelling of theHâŠ—(gâŠ•h) Jahn-Teller system: extension to vibronic reduction factors. Journal of Physics Condensed Matter, 2002, 14, 1319-1335.	1.8	4
43	The Jahn-Teller vibronic reduction factors in icosahedral G$otimes$(g$oplus$h) systems. Journal of Physics Condensed Matter, 2002, 14, 4679-4697.	1.8	4
44	Pseudo Jahn-Teller Origin of the Proton-transfer Energy Barrier in the Hydrogen-bonded [FHF]-System. Chemistry Journal of Moldova, 2021, 16, 115-120.	0.6	4
45	Anisotropy and Tunnelling Splitting in Strongly Coupled T_{1u} ⊗ h_g Jahn-Teller Systems*. Zeitschrift Fur Physikalische Chemie, 1997, 200, 111-117.	2.8	3
46	Tunnelling splitting and relaxation in the multimode Jahn-Teller system. Journal of Physics Condensed Matter, 1998, 10, 1293-1308.	1.8	3
47	Why does Ni suppress superconductivity in La1.85Sr0.15Cu1âˆ’yNiyO4?. Journal of Synchrotron Radiation, 1999, 6, 758-760.	2.4	3
48	The Franck-Condon approximation for second-order Jahn-Teller vibronic reduction in icosahedral TâŠ—h systems. Journal of Physics Condensed Matter, 2002, 14, 3115-3127.	1.8	3
49	Tunneling Path and Ground State Crossover in Linear TâŠ—(eâŠ•t2) and Quadratic GâŠ—(gâŠ•h) Jahnâ€“Teller Systems. Advances in Quantum Chemistry, 2003, 44, 89-102.	0.8	3
50	Static Field Splitting of Zeroâ€Phonon Lines in Jahnâ€Teller Systems. Physica Status Solidi (B): Basic Research, 1974, 64, 765-769.	1.5	2
51	Tunnelling Splitting and Relaxation in the Multimode T&x#2297;t2 Jahn-Teller System*. Zeitschrift Fur Physikalische Chemie, 1997, 200, 255-264.	2.8	2
52	Non-Condon Correction to Franckâ€“Condon Values of Second-order Reduction Factors: The Cubic T Term. Advances in Quantum Chemistry, 2003, , 169-182.	0.8	2
53	Second-order vibronic reduction factors for orbital triplet Jahnâ€“Teller systems in cubic and icosahedral symmetry. Journal of Physics Condensed Matter, 2004, 16, 5309-5325.	1.8	2
54	Effects of vibrational intercentre interaction in a trigonal two-centre system with twofold electronic degeneracy at each centre. Molecular Physics, 1990, 70, 1045-1055.	1.7	1

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55	The band Jahnâ€“Teller effect: A new perspective on an old problem. Journal of Molecular Structure, 2007, 838, 13-19.	3.6	1
56	Internal hindered rotations in polyatomic systems with the Jahn-Teller effect for a2TâŠ—(Îµ + Ï„2) term in the limiting case of strong vibronic coupling. Journal of Physics Condensed Matter, 1990, 2, 595-606.	1.8	0
57	Dopant Induced Enhancement of the Jahn-Teller Effect in Perovskite Cuprates. , 2001, , 215-219.		0
58	Franck-Condon Approximation for Second Order Reduction Factors. Application to Vibronic Reduction in Fullerenes. , 2001, , 247-250.		0