

Victor Polinger

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	Perovskite Crystals: Unique Pseudo-Jahn-Teller Origin of Ferroelectricity, Multiferroicity, Permittivity, Flexoelectricity, and Polar Nanoregions. Condensed Matter, 2020, 5, 68.	1.8	23
3	Effective flexoelectric and flexomagnetic response of ferroics. Solid State Physics, 2019, 70, 237-289.	0.5	9
4	Origin of polar nanoregions and relaxor properties of ferroelectrics. Physical Review B, 2018, 98, .	3.2	25
5	Strong Dependence of Quantum-Dot Delayed Luminescence on Excitation Pulse Width. Journal of Physical Chemistry Letters, 2017, 8, 3997-4003.	4.6	11
6	Pseudo Jahn-Teller effect in permittivity of ferroelectric perovskites. Journal of Physics: Conference Series, 2017, 833, 012012.	0.4	15
7	Off-center instability of Nb ⁵⁺ in KNbO ₃ under ambient pressure. Chemical Physics, 2015, 459, 72-80.	1.9	14
8	Pseudo Jahn-Teller origin of ferroelectric instability in BaTiO ₃ type perovskites: The Green's function approach and beyond. Physica B: Condensed Matter, 2015, 457, 296-309.	2.7	54
9	Ferroelectric phase transitions in cubic perovskites. Journal of Physics: Conference Series, 2013, 428, 012026.	0.4	16
10	Orbital Ordering Versus the Traditional Approach in the Cooperative Jahn-Teller Effect: A Comparative Study. Springer Series in Chemical Physics, 2009, , 685-725.	0.2	5
11	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
12	The band Jahn-Teller effect: A new perspective on an old problem. Journal of Molecular Structure, 2007, 838, 13-19.	3.6	1
13	Second-order vibronic reduction factors for orbital triplet Jahn-Teller systems in cubic and icosahedral symmetry. Journal of Physics Condensed Matter, 2004, 16, 5309-5325.	1.8	2
14	Non-Condon Correction to Franck-Condon Values of Second-order Reduction Factors: The Cubic T Term. Advances in Quantum Chemistry, 2003, , 169-182.	0.8	2
15	Tunneling Path and Ground State Crossover in Linear \hat{T}^2 -($e\hat{S}\cdot\hat{t}$) and Quadratic \hat{G}^2 -($g\hat{S}\cdot\hat{h}$) Jahn-Teller Systems. Advances in Quantum Chemistry, 2003, 44, 89-102.	0.8	3
16	Tunneling in Jahn-Teller Systems and Multidimensional WKB Approximation. Advances in Quantum Chemistry, 2003, 44, 59-88.	0.8	5
17	A physical explanation of the ground state crossover in the $\hat{H}\hat{S}$ - \hat{h} Jahn-Teller effect. Journal of Chemical Physics, 2002, 117, 4340-4347.	3.0	8
18	Modelling of the $\hat{H}\hat{S}$ -($g\hat{S}\cdot\hat{h}$) Jahn-Teller system: extension to vibronic reduction factors. Journal of Physics Condensed Matter, 2002, 14, 1319-1335.	1.8	4

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19	The Franck-Condon approximation for second-order Jahn-Teller vibronic reduction in icosahedral $Td\text{-}h$ systems. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 3115-3127.	1.8	3
20	The Jahn-Teller vibronic reduction factors in icosahedral $G\otimes(g\oplus h)$ systems. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 4679-4697.	1.8	4
21	An enhanced bonding model for C60 and its ions. <i>Chemical Physics</i> , 2002, 278, 41-51.	1.9	5
22	Ni-induced local distortions in $La_{1.85}Sr_{0.15}Cu_1\hat{\sim}yNi_yO_4$ and their relevance to Tc suppression: An angular-resolved XAFS study. <i>Physical Review B</i> , 2001, 64, .	3.2	17
23	Dopant Induced Enhancement of the Jahn-Teller Effect in Perovskite Cuprates. , 2001, , 215-219.		0
24	Franck-Condon Approximation for Second Order Reduction Factors. Application to Vibronic Reduction in Fullerenes. , 2001, , 247-250.		0
25	Reduction factors for the icosahedral $T_{1u}\hat{\sim}hg$ Jahn-Teller system. <i>Physical Review B</i> , 2000, 62, 16155-16166.	3.2	10
26	Multiple lines of conical intersections and nondegenerate ground state in $Td\text{-}t_2$ Jahn-Teller systems. <i>Journal of Chemical Physics</i> , 2000, 112, 8470-8482.	3.0	23
27	Electronic states of doped holes in $La(2\hat{\sim}x)Sr_xCuO_4$: a unique application of XAFS. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 373-375.	2.4	5
28	Why does Ni suppress superconductivity in $La_{1.85}Sr_{0.15}Cu_1\hat{\sim}yNi_yO_4$?. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 758-760.	2.4	3
29	Where do the doped holes go in $La_{[sub 2\hat{\sim}x]}Sr_{[sub x]}CuO_{[sub 4]}$? A close look by XAFS. <i>AIP Conference Proceedings</i> , 1999, , .	0.4	11
30	Tunnelling splitting and relaxation in the multimode Jahn-Teller system. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 1293-1308.	1.8	3
31	Anisotropy and the inversion splitting in the Jahn - Teller system. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 7119-7134.	1.8	9
32	Tunnelling Splitting and Relaxation in the Multimode $T\&\#2297;t_2$ Jahn-Teller System*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1997, 200, 255-264.	2.8	2
33	Anisotropy and Tunnelling Splitting in Strongly Coupled $T_{[sub 1u]}&\#2297;h_{[sub g]}$ Jahn-Teller Systems*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1997, 200, 111-117.	2.8	3
34	$H\hat{\sim}h$: A Jahn-Teller Coupling That Really Does Reduce the Degeneracy of the Ground State. <i>Physical Review Letters</i> , 1996, 77, 4362-4365.	7.8	62
35	A scale transformation in Jahn - Teller systems. <i>Journal of Physics Condensed Matter</i> , 1996, 8, L523-L529.	1.8	11
36	Inversion splitting in the $T(X)t_2$ Jahn-Teller system; tunnelling or 'hopping'?. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 2213-2232.	1.8	10

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37	Theory of Second-Order Vibronic Reduction Factors for Deep Level Impurities in Semiconductors. Materials Science Forum, 1992, 83-87, 487-492.	0.3	4
38	Pseudo Jahn-Teller origin of square-planar configuration instability of main-group-element hydrides. Journal of Molecular Structure, 1992, 270, 369-380.	3.6	13
39	MO LCAO analysis of the vibronic instability of the CuCl ₅ ³⁻ trigonal bipyramidal configuration. Critical view on the angular overlap model in vibronic problems. Chemical Physics, 1992, 159, 75-87.	1.9	20
40	A general theory of second-order vibronic reduction factors. Journal of Physics Condensed Matter, 1991, 3, 513-527.	1.8	18
41	Vibronic reduction factors for second-order spin-orbit coupling. Journal of Physics Condensed Matter, 1991, 3, 3441-3453.	1.8	9
42	Internal hindered rotations in polyatomic systems with the Jahn-Teller effect for a $2T_2 - (\hat{L}_z + \hat{I}_z, 2)$ term in the limiting case of strong vibronic coupling. Journal of Physics Condensed Matter, 1990, 2, 595-606.	1.8	0
43	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
44	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
45	The Multimode Jahn-Teller Effect in the Luminescence Spectrum of the Tetrahedral $2T_2 - (\hat{L}_z + \hat{I}_z, 2)$ Impurity System ZnS:Cu ²⁺ . Physica Status Solidi (B): Basic Research, 1986, 137, 241-253.	1.5	6
46	The Effect of Spin-Vibrational Interaction in Magnetic Properties of Exchange Tetraclusters. Physica Status Solidi (B): Basic Research, 1985, 129, 615-624.	1.5	7
47	Four-centre Jahn-Teller effect. Molecular Physics, 1984, 52, 1271-1289.	1.7	16
48	The pseudo-Jahn-Teller dynamics of central protons in porphins. Chemical Physics, 1984, 86, 57-65.	1.9	27
49	Multimode Pseudo Jahn-Teller Effect for Off-Centre Impurities in Crystals. Physica Status Solidi (B): Basic Research, 1984, 125, 401-408.	1.5	10
50	On the origin of dynamic instability of molecular systems. Theoretica Chimica Acta, 1984, 66, 161-172.	0.8	88
51	Vibronic Interactions and the Jahn-Teller Effect. Advances in Quantum Chemistry, 1982, , 85-160.	0.8	23
52	The origin of the isotropic EPR spectrum of a Jahn-Teller impurity in crystals. Solid State Communications, 1981, 38, 795-797.	1.9	5
53	Multimode Jahn-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
54	Multimode jahn-teller effect for an E 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

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55	The Jahn-Teller effect in icosahedral molecules and complexes. <i>Theoretica Chimica Acta</i> , 1978, 48, 87-101.	0.8	47
56	Static Field Splitting of Zero-Phonon Lines in Jahn-Teller Systems. <i>Physica Status Solidi (B): Basic Research</i> , 1974, 64, 765-769.	1.5	2
57	The linear jahn-teller effect for an orbital triplet. <i>Physica Status Solidi (B): Basic Research</i> , 1973, 60, 85-96.	1.5	18
58	The second order T-e-t ₂ problem in the Jahn-Teller effect theory. A new type of adiabatic potential minima and inversion (tunneling) splitting. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1973, 44, 495-496.	2.1	34