

# Piotr Petelenz

## List of Publications by Year in descending order

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docs citations

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times ranked

423  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft Selection Rules for Femtosecond Pump-Probe Vibrational Coherence Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 23501-23510.	3.1	2
2	Limitations of Generic Chromophore Concept for Femtosecond Vibrational Coherences. Journal of Physical Chemistry C, 2020, 124, 3529-3535.	3.1	2
3	Is Vibrational Coherence a Byproduct of Singlet Exciton Fission?. Journal of Physical Chemistry C, 2019, 123, 91-101.	3.1	13
4	Vibronic relaxation energies of acene-related molecules upon excitation or ionization. Physical Chemistry Chemical Physics, 2018, 20, 14061-14071.	2.8	9
5	Partial atomic multipoles for internally consistent microelectrostatic calculations. Journal of Computational Chemistry, 2017, 38, 2420-2429.	3.3	0
6	Dopant-Catalyzed Singlet Exciton Fission. ChemPhysChem, 2017, 18, 149-155.	2.1	5
7	Locally Broken Crystal Symmetry Facilitates Singlet Exciton Fission. Journal of Physical Chemistry Letters, 2016, 7, 1913-1916.	4.6	20
8	Charge-Transfer Coupling of an Embedded Pentacene Dimer with the Surrounding Crystal Matrix. Journal of Physical Chemistry C, 2015, 119, 28570-28576.	3.1	10
9	Charge-Transfer States in Pentacene: Dimer versus Crystal. Journal of Physical Chemistry C, 2015, 119, 14338-14342.	3.1	24
10	Lowest Singlet Exciton in Pentacene: Modern Calculations versus Classic Experiments. ChemPhysChem, 2014, 15, 2801-2809.	2.1	13
11	Quasiperiodic Energy Dependence of Exciton Relaxation Kinetics in the Sexithiophene Crystal. Journal of Physical Chemistry A, 2014, 118, 9653-9660.	2.5	0
12	Is Dipole Moment a Valid Descriptor of Excited State's Charge-Transfer Character?. Journal of the American Chemical Society, 2013, 135, 17379-17386.	13.7	20
13	Transition dipole moments of charge transfer excitations in one-component molecular crystals. Chemical Physics, 2012, 397, 92-97.	1.9	6
14	Intermediate vibronic coupling in charge transfer states: Comprehensive calculation of electronic excitations in sexithiophene crystal. Journal of Chemical Physics, 2011, 134, 224505.	3.0	14
15	Vibronic coupling in Frenkel and charge-transfer states of oligothiophene crystals. Physica Status Solidi (B): Basic Research, 2011, 248, 408-411.	1.5	2
16	Absorption profile and femtosecond intraband relaxation of the intense upper Davydov component in oligothiophenes. Physica Status Solidi (B): Basic Research, 2011, 248, 412-415.	1.5	0
17	Spectral shape of intense exciton absorption in oligothiophene crystals. Physical Review B, 2009, 79, .	3.2	12
18	Intraband relaxation of Frenkel excitons in sexithiophene crystals. Physical Review B, 2009, 80, .	3.2	6

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19	Intermediate vibronic coupling in sexithiophene single crystals. II. Three-particle contributions. <i>Journal of Chemical Physics</i> , 2009, 131, 044507.	3.0	25
20	Unusual features of the quaterthiophene electroabsorption spectrum. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 85-88.	0.8	2
21	Beyond the strong vibronic coupling approximation - sexithiophene single crystal. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 81-84.	0.8	0
22	Intermediate vibronic coupling in sexithiophene single crystals. <i>Journal of Chemical Physics</i> , 2009, 130, 094705.	3.0	22
23	Unbound exciton-phonon states in oligothiophene crystals – A model approach for spectroscopic purposes. <i>Chemical Physics</i> , 2008, 343, 100-106.	1.9	10
24	From quantum dots and nanocrystals to organic systems and biomolecules: Excitons and excitonic processes on their way from fundamental research to applications. 8th International Conference on Excitonic Processes in Condensed Matter (EXCON '08), Kyoto, Japan, 22-27 June 2008. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2533-2537.	1.5	0
25	Microscopic calculation of polariton effects in molecular crystals – application to sexithiophene electroabsorption spectrum. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 3472-3475.	0.8	0
26	Polariton effects in electroabsorption of molecular crystals with several molecules in the unit cell – Sexithiophene. <i>Organic Electronics</i> , 2006, 7, 551-560.	2.6	7
27	Theoretical interpretation of electro-absorption spectra for intense optical transitions. <i>Physical Review B</i> , 2005, 71, .	3.2	8
28	Charge-transfer interactions – their manifestations in electroabsorption spectra. <i>Journal of Luminescence</i> , 2004, 110, 325-331.	3.1	7
29	Theoretical calculations of the electroabsorption spectra of perylenetetracarboxylic dianhydride. <i>Journal of Chemical Physics</i> , 2003, 118, 1423-1432.	3.0	32
30	Effects of microscopic disorder in electroabsorption spectroscopy: Orientational disorder in the fullerene crystal. <i>Journal of Chemical Physics</i> , 2003, 118, 3711-3716.	3.0	2
31	Theoretical calculation of the electro-absorption spectrum of the $\hat{1}$ -sexithiophene single crystal. <i>Journal of Chemical Physics</i> , 2002, 117, 1328-1335.	3.0	37
32	Davydov splitting in the sexithiophene crystal. <i>Chemical Physics Letters</i> , 2001, 343, 139-142.	2.6	15
33	Theoretical Estimates of Charge Transfer State Energies in Sexithiophene. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 355, 65-75.	0.3	4
34	SPECTRAL EFFECTS OF MICROSCOPIC AND MESOSCOPIC DISORDER IN ORGANIC FILMS – MODEL CALCULATIONS. <i>International Journal of Modern Physics B</i> , 2001, 15, 3651-3655.	2.0	4
35	SPECTRAL EFFECTS OF MICROSCOPIC AND MESOSCOPIC DISORDER IN ORGANIC FILMS – MODEL CALCULATIONS. , 2001, , .		0
36	Charge transfer excitons in perylenetetracarboxylic dianhydride – microelectrostatic calculations. <i>Chemical Physics Letters</i> , 2000, 324, 161-165.	2.6	21

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37	Mesoscopic disorder in thin film spectra: absorption spectroscopy of sexithiophene. <i>Chemical Physics Letters</i> , 2000, 332, 435-441.	2.6	7
38	Vibronic interpretation of the low-energy absorption spectrum of the sexithiophene single crystal. <i>Journal of Chemical Physics</i> , 2000, 113, 11306-11314.	3.0	34
39	Polarization energy calculations of charge transfer states in the $\hat{1}\pm$ -sexithiophene crystal. <i>Synthetic Metals</i> , 2000, 109, 97-100.	3.9	16
40	Theoretical interpretation of the electroabsorption spectra of polyacene crystals. II. Charge-transfer states. <i>Journal of Chemical Physics</i> , 1999, 111, 7576-7582.	3.0	26
41	Charge-transfer exciton band structure in the fullerene crystal-model calculations. <i>Journal of Chemical Physics</i> , 1998, 109, 7923-7931.	3.0	33
42	Theoretical interpretation of the electroabsorption spectrum of fullerene films. <i>Journal of Chemical Physics</i> , 1998, 109, 7932-7939.	3.0	40
43	Effect of the Coupling with Frenkel States on the Electroabsorption Signal of Charge Transfer Excitons. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 324, 205-210.	0.3	0
44	Theoretical interpretation of the electroabsorption spectra of polyacene crystals. I. Role of Frenkel states. <i>Journal of Chemical Physics</i> , 1997, 107, 7114-7119.	3.0	24
45	Quasi-spherical model for the calculation of rotationally averaged charge transfer integrals in the fullerene crystal. <i>Advanced Materials for Optics and Electronics</i> , 1996, 6, 312-316.	0.4	4
46	Microscopic calculation of the electroabsorption spectra of polyacene crystals. <i>Advanced Materials for Optics and Electronics</i> , 1996, 6, 375-378.	0.4	3
47	Theoretical calculation of the electroabsorption spectra of polyacene crystals. <i>Journal of Chemical Physics</i> , 1996, 105, 4427-4440.	3.0	74
48	Autoionization of excited Frenkel states in the anthracene crystal. <i>Journal of Chemical Physics</i> , 1994, 100, 4607-4614.	3.0	10
49	Nonlocal polarizabilities in excited states of polyacene crystals. <i>Chemical Physics Letters</i> , 1993, 215, 607-610.	2.6	27
50	Electro-absorption spectra of degenerate charge transfer states. <i>Chemical Physics</i> , 1993, 171, 397-405.	1.9	19
51	Charge Transfer States in Polyacene Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1993, 228, 55-60.	0.3	1
52	Electro-absorption spectrum of tetracene. High field measurements on polycrystalline samples. <i>Chemical Physics</i> , 1992, 167, 185-192.	1.9	8
53	Electro-absorption of charge transfer states: effect of sample texture. <i>Chemical Physics</i> , 1992, 167, 377-384.	1.9	8
54	Two-dimensional model of charge transfer excitons in polyacene crystals. <i>Chemical Physics</i> , 1991, 157, 169-182.	1.9	14

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55	Reconsideration of the electroabsorption spectra of the tetracene and pentacene crystals. Chemical Physics, 1988, 119, 25-39.	1.9	53
56	Integral transform wave functions in the solution of the quantum mechanical three body problem. AIP Conference Proceedings, 1988, , .	0.4	1
57	Charge-transfer excitons in anthracene crystals. A theoretical investigation of their optical absorption and thermal dissociation. Chemical Physics, 1981, 63, 303-320.	1.9	83
58	Vibronic interpretation of silicon phthalocyanine dimer absorption spectrum. Molecular Physics, 1973, 25, 237-239.	1.7	14
59	Critical Reconsideration of Biphenyl Fluorescence Spectrum. Journal of Chemical Physics, 1972, 57, 5016-5017.	3.0	5