

# Piotr Petelenz

## List of Publications by Year in descending order

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59  
papers

860  
citations

430874

18  
h-index

501196

28  
g-index

60  
all docs

60  
docs citations

60  
times ranked

423  
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge-transfer excitons in anthracene crystals. A theoretical investigation of their optical absorption and thermal dissociation. <i>Chemical Physics</i> , 1981, 63, 303-320.	1.9	83
2	Theoretical calculation of the electroabsorption spectra of polyacene crystals. <i>Journal of Chemical Physics</i> , 1996, 105, 4427-4440.	3.0	74
3	Reconsideration of the electroabsorption spectra of the tetracene and pentacene crystals. <i>Chemical Physics</i> , 1988, 119, 25-39.	1.9	53
4	Theoretical interpretation of the electroabsorption spectrum of fullerene films. <i>Journal of Chemical Physics</i> , 1998, 109, 7932-7939.	3.0	40
5	Theoretical calculation of the electro-absorption spectrum of the $\hat{1}\pm$ -sexithiophene single crystal. <i>Journal of Chemical Physics</i> , 2002, 117, 1328-1335.	3.0	37
6	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
7	Charge-transfer exciton band structure in the fullerene crystal-model calculations. <i>Journal of Chemical Physics</i> , 1998, 109, 7923-7931.	3.0	33
8	Theoretical calculations of the electroabsorption spectra of perylenetetracarboxylic dianhydride. <i>Journal of Chemical Physics</i> , 2003, 118, 1423-1432.	3.0	32
9	Nonlocal polarizabilities in excited states of polyacene crystals. <i>Chemical Physics Letters</i> , 1993, 215, 607-610.	2.6	27
10	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
11	Intermediate vibronic coupling in sexithiophene single crystals. II. Three-particle contributions. <i>Journal of Chemical Physics</i> , 2009, 131, 044507.	3.0	25
12	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
13	Charge-Transfer States in Pentacene: Dimer versus Crystal. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14338-14342.	3.1	24
14	Intermediate vibronic coupling in sexithiophene single crystals. <i>Journal of Chemical Physics</i> , 2009, 130, 094705.	3.0	22
15	Charge transfer excitons in perylenetetracarboxylic dianhydride – microelectrostatic calculations. <i>Chemical Physics Letters</i> , 2000, 324, 161-165.	2.6	21
16	Is Dipole Moment a Valid Descriptor of Excited State's Charge-Transfer Character?. <i>Journal of the American Chemical Society</i> , 2013, 135, 17379-17386.	13.7	20
17	Locally Broken Crystal Symmetry Facilitates Singlet Exciton Fission. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1913-1916.	4.6	20
18	Electro-absorption spectra of degenerate charge transfer states. <i>Chemical Physics</i> , 1993, 171, 397-405.	1.9	19

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19	Polarization energy calculations of charge transfer states in the $\hat{I}\pm$ -sexithiophene crystal. <i>Synthetic Metals</i> , 2000, 109, 97-100.	3.9	16
20	Davydov splitting in the sexithiophene crystal. <i>Chemical Physics Letters</i> , 2001, 343, 139-142.	2.6	15
21	Vibronic interpretation of silicon phthalocyanine dimer absorption spectrum. <i>Molecular Physics</i> , 1973, 25, 237-239.	1.7	14
22	Two-dimensional model of charge transfer excitons in polyacene crystals. <i>Chemical Physics</i> , 1991, 157, 169-182.	1.9	14
23	Intermediate vibronic coupling in charge transfer states: Comprehensive calculation of electronic excitations in sexithiophene crystal. <i>Journal of Chemical Physics</i> , 2011, 134, 224505.	3.0	14
24	Lowest Singlet Exciton in Pentacene: Modern Calculations versus Classic Experiments. <i>ChemPhysChem</i> , 2014, 15, 2801-2809.	2.1	13
25	Is Vibrational Coherence a Byproduct of Singlet Exciton Fission?. <i>Journal of Physical Chemistry C</i> , 2019, 123, 91-101.	3.1	13
26	Spectral shape of intense exciton absorption in oligothiophene crystals. <i>Physical Review B</i> , 2009, 79, .	3.2	12
27	Autoionization of excited Frenkel states in the anthracene crystal. <i>Journal of Chemical Physics</i> , 1994, 100, 4607-4614.	3.0	10
28	Unbound exciton-phonon states in oligothiophene crystals – A model approach for spectroscopic purposes. <i>Chemical Physics</i> , 2008, 343, 100-106.	1.9	10
29	Charge-Transfer Coupling of an Embedded Pentacene Dimer with the Surrounding Crystal Matrix. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28570-28576.	3.1	10
30	Vibronic relaxation energies of acene-related molecules upon excitation or ionization. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14061-14071.	2.8	9
31	Electro-absorption spectrum of tetracene. High field measurements on polycrystalline samples. <i>Chemical Physics</i> , 1992, 167, 185-192.	1.9	8
32	Electro-absorption of charge transfer states: effect of sample texture. <i>Chemical Physics</i> , 1992, 167, 377-384.	1.9	8
33	Theoretical interpretation of electro-absorption spectra for intense optical transitions. <i>Physical Review B</i> , 2005, 71, .	3.2	8
34	Mesoscopic disorder in thin film spectra: absorption spectroscopy of sexithiophene. <i>Chemical Physics Letters</i> , 2000, 332, 435-441.	2.6	7
35	Charge-transfer interactions – their manifestations in electroabsorption spectra. <i>Journal of Luminescence</i> , 2004, 110, 325-331.	3.1	7
36	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

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37	Intraband relaxation of Frenkel excitons in sexithiophene crystals. <i>Physical Review B</i> , 2009, 80, .	3.2	6
38	Transition dipole moments of charge transfer excitations in one-component molecular crystals. <i>Chemical Physics</i> , 2012, 397, 92-97.	1.9	6
39	Critical Reconsideration of Biphenyl Fluorescence Spectrum. <i>Journal of Chemical Physics</i> , 1972, 57, 5016-5017.	3.0	5
40	Dopant-Catalyzed Singlet Exciton Fission. <i>ChemPhysChem</i> , 2017, 18, 149-155.	2.1	5
41	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
42	Theoretical Estimates of Charge Transfer State Energies in Sexithiophene. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 355, 65-75.	0.3	4
43	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
44	Microscopic calculation of the electroabsorption spectra of polyacene crystals. <i>Advanced Materials for Optics and Electronics</i> , 1996, 6, 375-378.	0.4	3
45	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
46	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
47	Vibronic coupling in Frenkel and charge-transfer states of oligothiophene crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 408-411.	1.5	2
48	Soft Selection Rules for Femtosecond Pump-Probe Vibrational Coherence Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23501-23510.	3.1	2
49	Limitations of Generic Chromophore Concept for Femtosecond Vibrational Coherences. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3529-3535.	3.1	2
50	Integral transform wave functions in the solution of the quantum mechanical three body problem. <i>AIP Conference Proceedings</i> , 1988, , .	0.4	1
51	Charge Transfer States in Polyacene Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1993, 228, 55-60.	0.3	1
52	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
53	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
54	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

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55	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
56	Absorption profile and femtosecond intraband relaxation of the intense upper Davydov component in oligothiophenes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 412-415.	1.5	0
57	Quasiperiodic Energy Dependence of Exciton Relaxation Kinetics in the Sexithiophene Crystal. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9653-9660.	2.5	0
58	Partial atomic multipoles for internally consistent microelectrostatic calculations. <i>Journal of Computational Chemistry</i> , 2017, 38, 2420-2429.	3.3	0
59	SPECTRAL EFFECTS OF MICROSCOPIC AND MESOSCOPIC DISORDER IN ORGANIC FILMS – MODEL CALCULATIONS. , 2001, , .		0