Sven StafstrÃ¶m

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/744057/publications.pdf

Version: 2024-02-01

204	9,413	46918	43802
papers	citations	47 h-index	91 g-index

208	208	208	8694
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polaron dynamics in anisotropic Holsteinâ€“Peierls systems. Physical Chemistry Chemical Physics, 2017, 19, 4078-4084.	1.3	11
2	Effect of Polarization on the Mobility of C₆₀: A Kinetic Monte Carlo Study. Journal of Chemical Theory and Computation, 2016, 12, 812-824.	2.3	23
3	Impact of the electronâ€“phonon coupling symmetry on the polaron stability and mobility in organic molecular semiconductors. Physical Chemistry Chemical Physics, 2016, 18, 1386-1391.	1.3	21
4	Transition fields in organic materials: From percolation to inverted Marcus regime. A consistent Monte Carlo simulation in disordered PPV. Journal of Chemical Physics, 2015, 142, 094503.	1.2	14
5	Transport of Polarons in Graphene Nanoribbons. Journal of Physical Chemistry Letters, 2015, 6, 510-514.	2.1	41
6	Unfolding spinor wave functions and expectation values of general operators: Introducing the unfolding-density operator. Physical Review B, 2015, 91, .	1.1	274
7	Visualization and thermodynamic encoding of single-molecule partition function projections. Nature Communications, 2015, 6, 6210.	5.8	23
8	Polaron stability in molecular semiconductors: theoretical insight into the impact of the temperature, electric field and the system dimensionality. Physical Chemistry Chemical Physics, 2015, 17, 8973-8982.	1.3	36
9	Bonding, charge rearrangement and interface dipoles of benzene, graphene, and PAH molecules on Au(1 1 1) and Cu(1 1 1). Carbon, 2015, 81, 620-628.	5.4	46
10	Adsorption of Large Hydrocarbons on Coinage Metals: A van der Waals Density Functional Study. ChemPhysChem, 2014, 15, 2851-2858.	1.0	45
11	Unraveling the Mechanism of the Covalent Coupling Between Terminal Alkynes on a Noble Metal. Journal of Physical Chemistry C, 2014, 118, 3181-3187.	1.5	73
12	Dynamics of charge separation at an organic donor-acceptor interface. Physical Review B, 2014, 90, .	1.1	23
13	Carbon Fluoride, CF_x: Structural Diversity as Predicted by First Principles. Journal of Physical Chemistry C, 2014, 118, 6514-6521.	1.5	41
14	Effects of extrinsic and intrinsic perturbations on the electronic structure of graphene: Retaining an effective primitive cell band structure by band unfolding. Physical Review B, 2014, 89, .	1.1	424
15	Reactivity of adducts relevant to the deposition of hexagonal BN from first-principles calculations. Chemical Physics Letters, 2013, 583, 119-124.	1.2	40
16	Mechanisms of Halogen-Based Covalent Self-Assembly on Metal Surfaces. Journal of the American Chemical Society, 2013, 135, 5768-5775.	6.6	216
17	Dynamics of exciton dissociation in donor-acceptor polymer heterojunctions. Journal of Chemical Physics, 2013, 138, 164905.	1.2	30
18	Polaron dynamics in a two-dimensional Holstein-Peierls system. Journal of Chemical Physics, 2013, 138, 184104.	1.2	33

#	Article	IF	Citations
19	Benzene, coronene, and circumcoronene adsorbed on gold, and a gold cluster adsorbed on graphene: Structural and electronic properties. Physical Review B, 2012, 85, .	1.1	57
20	Monte Carlo simulations of charge transport in organic systems with true off-diagonal disorder. Journal of Chemical Physics, 2012, 137, 114901.	1.2	16
21	Structural Patterns Arising during Synthetic Growth of Fullerene-Like Sulfocarbide. Journal of Physical Chemistry C, 2012, 116, 21124-21131.	1.5	41
22	Spin-dependent polaron recombination in conjugated polymers. Journal of Chemical Physics, 2012, 136, 244901.	1.2	22
23	Polaron stability in molecular crystals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1807-1811.	0.9	20
24	Complex Polarization Propagator Approach in the Restricted Open-Shell, Self-Consistent Field Approximation: The Near K-Edge X-ray Absorption Fine Structure Spectra of Allyl and Copper Phthalocyanine. Journal of Physical Chemistry B, 2011, 115, 5096-5102.	1.2	18
25	Effect of dynamic disorder on charge transport along a pentacene chain. Physical Review B, 2011, 83, .	1.1	20
26	Zipping Up: Cooperativity Drives the Synthesis of Graphene Nanoribbons. Journal of the American Chemical Society, 2011, 133, 14884-14887.	6.6	110
27	Polaron effects and electric field dependence of the charge carrier mobility in conjugated polymers. Journal of Chemical Physics, 2011, 135, 134902.	1.2	16
28	Intercalation of P atoms in Fullerene-like CP. Chemical Physics Letters, 2011, 501, 400-403.	1.2	43
29	Fullerene-like CSx: A first-principles study of synthetic growth. Chemical Physics Letters, 2011, 506, 86-91.	1.2	46
30	Scattering process between polaron and exciton in conjugated polymers. Journal of Chemical Physics, 2011, 134, 044906.	1.2	21
31	Bipolaron recombination in conjugated polymers. Journal of Chemical Physics, 2011, 135, 074902.	1.2	19
32	Electron localization and the transition from adiabatic to nonadiabatic charge transport in organic conductors. Chemical Society Reviews, 2010, 39, 2484.	18.7	124
33	Efficient Spin Injection Through Exchange Coupling at Organic Semiconductor/Ferromagnet Heterojunctions. Advanced Materials, 2010, 22, 1626-1630.	11.1	74
34	Tuning the Supramolecular Chirality of One- and Two-Dimensional Aggregates with the Number of Stereogenic Centers in the Component Porphyrins. Journal of the American Chemical Society, 2010, 132, 9350-9362.	6.6	98
35	Impact of ring torsion dynamics on intrachain charge transport in conjugated polymers. Physical Review B, 2009, 79, .	1.1	19
36	Dynamics of molecular self-ordering in tetraphenyl porphyrin monolayers on metallic substrates. Nanotechnology, 2009, 20, 275602.	1.3	75

#	Article	IF	Citations
37	Effects of Ï€-stacking interactions on the near carbon K-edge x-ray absorption fine structure: A theoretical study of the ethylene pentamer and the phthalocyanine dimer. Journal of Chemical Physics, 2009, 130, 104305.	1.2	13
38	Water adsorption on phosphorous-carbide thin films. Surface and Coatings Technology, 2009, 204, 1035-1039.	2.2	15
39	Dangling bond energetics in carbon nitride and phosphorus carbide thin films with fullerene-like and amorphous structure. Chemical Physics Letters, 2009, 482, 110-113.	1.2	41
40	The effect of lattice dynamics on electron localization in poly-(para-phenylenevinylene). Synthetic Metals, 2009, 159, 2219-2221.	2.1	7
41	Hole mobility and transport mechanisms in Î»-DNA. Journal of Chemical Physics, 2009, 131, 155102.	1.2	2
42	Water adsorption on fullerene-like carbon nitride overcoats. Thin Solid Films, 2008, 517, 1106-1110.	0.8	40
43	Nonradiative relaxation processes in molecular crystals. Journal of Luminescence, 2008, 128, 2019-2026.	1.5	5
44	Nano-wire formation by self-assembly of siliconâ€“metal cage-like molecules. Chemical Physics Letters, 2008, 458, 170-174.	1.2	28
45	Synthesis of phosphorusâ€carbide thin films by magnetron sputtering. Physica Status Solidi - Rapid Research Letters, 2008, 2, 191-193.	1.2	40
46	A Monte Carlo study of charge transfer in DNA. Journal of Chemical Physics, 2008, 129, 125102.	1.2	14
47	TDAE chemisorbed on gold. Journal of Physics Condensed Matter, 2008, 20, 315008.	0.7	2
48	Integer charge transfer at the tetrakis(dimethylamino)ethylene/Au interface. Applied Physics Letters, 2008, 92, .	1.5	41
49	Publisher's Note: Monte Carlo simulations of charge carrier mobility in semiconducting polymer field-effect transistors [Phys. Rev. B76, 155202 (2007)]. Physical Review B, 2008, 77, .	1.1	0
50	Impact of ring torsion on the intrachain mobility in conjugated polymers. Physical Review B, 2007, 75, .	1.1	48
51	Monte Carlo simulations of charge carrier mobility in semiconducting polymer field-effect transistors. Physical Review B, 2007, 76, .	1.1	39
52	Monte Carlo simulation of controlled charge carriers diffusion in highly ordered iodine doped pentacene film. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3545-3555.	0.8	0
53	First-principles calculations on the structural evolution of solid fullerene-like CPx. Chemical Physics Letters, 2006, 426, 374-379.	1.2	46
54	Polaron dynamics in highly ordered molecular crystals. Chemical Physics Letters, 2006, 428, 446-450.	1.2	56

#	Article	IF	Citations
55	AlGaInN metal-organic-chemical-vapor-deposition gas-phase chemistry in hydrogen and nitrogen diluents: First-principles calculations. Chemical Physics Letters, 2006, 431, 346-351.	1.2	42
56	Siliconâ€“metal clusters: Nano-templates for cluster assembled materials. Thin Solid Films, 2006, 515, 1192-1196.	0.8	38
57	Fullerene-like CPx: A first-principles study of the relative stability of precursors and defect energetics during synthetic growth. Thin Solid Films, 2006, 515, 1028-1032.	0.8	40
58	Structural and electronic transitions in potassium-doped pentacene. Physical Review B, 2006, 73, .	1.1	17
59	Electronic structure calculations of the phenalenyl-based neutral radical conductor bis(9-cyclohexylimino-1-phenalenyl) boron. Physical Review B, 2006, 74, .	1.1	16
60	Effect of long-range correlation on the metal-insulator transition in a disordered molecular crystal. Physical Review B, 2006, 74, .	1.1	8
61	Dynamical simulation of exciton dissociation in poly(para-phenylenevinylene) systems. Journal of Luminescence, 2005, 112, 357-362.	1.5	5
62	First-principles calculations on the role of CN precursors for the formation of fullerene-like carbon nitride. Chemical Physics Letters, 2005, 401, 288-295.	1.2	67
63	First-principles calculations on the curvature evolution and cross-linkage in carbon nitride. Chemical Physics Letters, 2005, 410, 228-234.	1.2	57
64	Electronic structure calculations of potassium-intercalated single-walled carbon nanotubes. Physical Review B, 2005, 72, .	1.1	11
65	Charge and energy dynamics in photo-excited poly(para-phenylenevinylene) systems. Journal of Chemical Physics, 2004, 121, 1601-1608.	1.2	5
66	Nonadiabatic simulations of polaron dynamics. Physical Review B, 2004, 69, .	1.1	127
67	Split gate nanoscale Coulomb driven stochastic resonance mechanism for separating like-charged impurities in semiconductors. Physical Review B, 2004, 69, .	1.1	2
68	Coulomb interactions in rubidium-doped tetracyanoethylene: A model system for organometallic magnets. Physical Review B, 2004, 69, .	1.1	31
69	Fullerene-like BCN thin films: a computational and experimental study. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 113, 242-247.	1.7	47
70	Characterization of aza-fullerene C58N2 isomers by X-ray spectroscopy. Chemical Physics Letters, 2003, 371, 98-104.	1.2	15
71	Electron Localization in DNA. Nano Letters, 2003, 3, 1417-1420.	4.5	25
72	Self-consistent drift-diffusion model of nanoscale impurity profiles in semiconductor layers, quantum wires, and quantum dots. Physical Review B, 2003, 67, .	1.1	36

#	Article	IF	Citations
73	Charge transport in Ï€-conjugated systems. Synthetic Metals, 2003, 137, 1397-1399.	2.1	8
74	Anderson localization in two-dimensional disordered systems. Synthetic Metals, 2003, 139, 239-244.	2.1	12
75	Modeling of the dynamics of charge separation in an excited poly(phenylene vinylene)/C60system. Physical Review B, 2003, 68, .	1.1	13
76	Intershell conductance in multiwall carbon nanotubes. Physical Review B, 2003, 67, .	1.1	67
77	Soliton and polaron transport intrans-polyacetylene. Physical Review B, 2002, 65, .	1.1	39
78	Interchain charge transport in disorderedÏ€-conjugated chain systems. Physical Review B, 2002, 66, .	1.1	16
79	High intercalation levels in lithium perylene stoichiometric compounds. Chemical Physics Letters, 2002, 354, 389-394.	1.2	34
80	Polaron dynamics in a system of coupled conjugated polymer chains. Synthetic Metals, 2001, 119, 235-236.	2.1	1
81	Localization in defected chiral carbon nanotubes. Synthetic Metals, 2001, 121, 1239-1240.	2.1	0
82	Conductance calculations through stacks of polyaromatic hydrocarbons. Synthetic Metals, 2001, 121, 1273-1274.	2.1	1
83	Theoretical study of phenylene ethynylene macromolecules. Synthetic Metals, 2001, 121, 1271-1272.	2.1	1
84	Self-consistent-field study of conduction through conjugated molecules. Physical Review B, 2001, 64, .	1.1	51
85	Band Resonant Tunneling in DNA Molecules. Physical Review Letters, 2001, 87, 228101.	2.9	84
86	An effective hopping model for weakly interacting Ï€ systems: Electronic structure of stacked polyaromatic hydrocarbons. International Journal of Quantum Chemistry, 2001, 84, 216-225.	1.0	18
87	Predicted stability of a new aza[60]fullerene molecule, C48N12. Chemical Physics Letters, 2001, 340, 227-231.	1.2	79
88	Cross-Linked Nano-onions of Carbon Nitride in the Solid Phase: Existence of a NovelC48N12Aza-Fullerene. Physical Review Letters, 2001, 87, 225503.	2.9	184
89	Theoretical investigation of the role of Ï€â€“Ï€ interactions for the stability of phenylene ethynylene aggregates. Chemical Physics, 2001, 270, 245-251.	0.9	18
90	Disorder-induced electron localization in metallic carbon nanotubes. Physical Review B, 2001, 63, .	1.1	47

#	Article	IF	Citations
91	Polaron Dynamics in a System of Coupled Conjugated Polymer Chains. Physical Review Letters, 2001, 86, 3602-3605.	2.9	169
92	A Theoretical Study of Electrical Contacts to Self-Assembled Molecular Wires on Conducting Substrates. , 2001, , .		0
93	Interactions between molecular wires and a gold surface. Chemical Physics Letters, 2000, 322, 301-306.	1.2	61
94	Theoretical study of electron transport along self-assembled graphitic nanowires. Journal of Physics Condensed Matter, 2000, 12, 9433-9440.	0.7	8
95	Enhanced thermal dissociation of optically excited C 60 chains. Europhysics Letters, 2000, 49, 631-636.	0.7	11
96	Effect of bending and vacancies on the conductance of carbon nanotubes. Physical Review B, 2000, 62, 7639-7644.	1.1	81
97	Reactivity of curved and planar carbonâ€“nitride structures. Applied Physics Letters, 2000, 77, 3941-3943.	1.5	84
98	Negative Poisson's Ratios for Extreme States of Matter. Science, 2000, 288, 2018-2022.	6.0	74
99	Modeling vacancies in graphite via the HÃ¼ckel method. Physical Review B, 2000, 61, 14089-14094.	1.1	74
100	Influence of the Morphology on the Electronic Structure of Hexa-peri-hexabenzocoronene Thin Filmsâ€. Journal of Physical Chemistry B, 2000, 104, 3967-3975.	1.2	39
101	Localization in quasi-one-dimensional systems. Physical Review B, 2000, 62, 5245-5250.	1.1	30
102	Effect of charge state on bonding in fulleride polymers. Europhysics Letters, 1999, 46, 382-388.	0.7	4
103	Conductance manipulation at the molecular level. Journal of Physics Condensed Matter, 1999, 11, 3555-3562.	0.7	26
104	Effects of doping and interchain interactions on the metal-insulator transition intrans-polyacetylene. Physical Review B, 1999, 60, 7939-7943.	1.1	15
105	Electronic structure of tris(8-hydroxyquinoline) aluminum thin films in the pristine and reduced states. Journal of Chemical Physics, 1999, 111, 2157-2163.	1.2	138
106	Electronic and vibrational structure of thin films of bithiophene: Undoped and alkali-doped states. Journal of Chemical Physics, 1999, 110, 8060-8069.	1.2	12
107	A Î”-self-consistent-field study of the nitrogen 1s binding energies in carbon nitrides. Journal of Chemical Physics, 1999, 111, 3203-3208.	1.2	40
108	Controlling inter-chain and intra-chain excitations of a poly(thiophene) derivative in thin films. Chemical Physics Letters, 1999, 304, 84-90.	1.2	43

#	Article	IF	Citations
109	Studies of Polaron and/or Bipolaron Formation in Short Segments of Polymers. Synthetic Metals, 1999, 101, 287-290.	2.1	4
110	Effect of charge state on bonding in fulleride polymers. Synthetic Metals, 1999, 103, 2422-2423.	2.1	1
111	Interactions between molecular wires and a gold surface. Synthetic Metals, 1999, 101, 429-430.	2.1	1
112	Conductance through a C60 molecule. Synthetic Metals, 1999, 101, 469-470.	2.1	0
113	Materials with Negative Compressibilities in One or More Dimensions. Science, 1998, 279, 1522-1524.	6.0	335
114	Negative Poisson's ratios as a common feature of cubic metals. Nature, 1998, 392, 362-365.	13.7	635
115	Tunneling across molecular wires: an analytical exactly solvable model. Solid State Communications, 1998, 108, 555-559.	0.9	21
116	Numerical investigation of electron localization in polymer chains. Physical Review B, 1998, 57, 2197-2202.	1.1	4
117	Two dimensional fulleride polymers. , 1998, , .		0
118	Contact dependence of the conductance through C[sub 60]. , 1998, , .		0
119	Inter- and intrachain electron-hole recombination in polythiophene. Synthetic Metals, 1997, 85, 1065-1068.	2.1	7
120	Geometrical and optical properties of fullerene polymers. Synthetic Metals, 1997, 86, 2393-2394.	2.1	2
121	Electronic structure and stability of fullerene polymers. Applied Physics A: Materials Science and Processing, 1997, 64, 307-314.	1.1	16
122	The electronic and geometric structures of neutral and potassium-doped poly [3-(4-octylphenyl)thiophene] studied by photoelectron spectroscopy. Synthetic Metals, 1996, 76, 263-267.	2.1	6
123	The electronic structure of neutral and alkali metal-doped poly[3-(4-octylphenyl)thiophene] studied by photoelectron spectroscopy. Synthetic Metals, 1996, 80, 59-66.	2.1	17
124	Theoretical investigations of the interaction between electron and hole polarons in thiophene oligomers. Physical Review B, 1996, 54, 13713-13720.	1.1	11
125	Formation ofC60dimers: A theoretical study of electronic structure and optical absorption. Physical Review B, 1996, 53, 13150-13158.	1.1	42
126	Superhard and Elastic Carbon Nitride Thin Films Having Fullerenelike Microstructure. Physical Review Letters, 1996, 76, 2205-2205.	2.9	19

#	Article	IF	Citations
127	Electronic structure of trimethylamine alane in the solid state. Chemical Physics Letters, 1995, 235, 528-534.	1.2	8
128	Conductance and localization in a system of coupled conjugated polymer chains. Physical Review B, 1995, 51, 4137-4142.	1.1	12
129	Electronic Properties of Linear C 60 Polyanions. Europhysics Letters, 1995, 30, 295-300.	0.7	18
130	A Delta Self-Consistent-Field Study of Core Electron Binding Energies of Model Molecules for the Aluminum/Polythiophene Interface. The Journal of Physical Chemistry, 1995, 99, 16597-16601.	2.9	10
131	Experimental and Theoretical Studies of the Electronic Structure of Poly(p-phenylenevinylene) and Some Ring-Substituted Derivatives. Macromolecules, 1995, 28, 1959-1965.	2.2	65
132	Chemical and electronic aspects of metal/conjugated polymer interfaces. Implications for electronic devices. Synthetic Metals, 1995, 71, 2159-2162.	2.1	40
133	Superhard and Elastic Carbon Nitride Thin Films Having Fullerenelike Microstructure. Physical Review Letters, 1995, 75, 1336-1339.	2.9	652
134	One- and Two-Photon Absorption Spectra of Short Conjugated Polyenes. The Journal of Physical Chemistry, 1994, 98, 7782-7789.	2.9	50
135	Interacting Bipolarons in n -Doped Sexiphenyl Films. Europhysics Letters, 1994, 28, 85-90.	0.7	26
136	Reactions of low work function metals Na, Al, and Ca on Î±,Ï‰â€diphenyltetradecaheptaene. Implications for metal/polymer interfaces. Journal of Chemical Physics, 1994, 100, 6765-6771.	1.2	58
137	Metal/conjugated polymer interfaces: Sodium, magnesium, aluminum, and calcium on transâ€polyacetylene. Journal of Chemical Physics, 1994, 101, 9137-9142.	1.2	22
138	Temperature evolution of the electronic band structure of the undoped and doped regioregular analog of poly(3â€alkylthiophenes): A spectroscopic and theoretical study. Journal of Chemical Physics, 1994, 100, 1731-1741.	1.2	25
139	Valenceâ€band structure of PMDAâ€ODA polyimide studied by xâ€ray photoelectron spectroscopy and theoretical calculations*. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 772-782.	0.9	7
140	The chemical and electronic structure of the interface between aluminum and conjugated polymers. Electrochimica Acta, 1994, 39, 235-244.	2.6	48
141	Some chemical and electronic structures of the non-conjugated polymer poly(3,3â€²-phthalidylidene-4,4â€²-biphenylene). Synthetic Metals, 1994, 67, 125-128.	2.1	17
142	A theoretical study of the chemical structure of the non-conjugated polymer poly(3,3â€²-phthalidylidene-4,4â€²-biphenylene). Synthetic Metals, 1994, 67, 319-322.	2.1	38
143	Electronic structure and conductance in heavily doped trans-polyacetylene. Synthetic Metals, 1994, 65, 185-194.	2.1	5
144	Effects of Interchain Interactions on the Localization of Doping Induced Defects in Quasi One-Dimensional Systems. Molecular Crystals and Liquid Crystals, 1994, 256, 209-216.	0.3	3

#	Article	IF	Citations
145	Interpretation of Anomalous Absorption Spectra. A Theoretical Study of the Geometric, Electronic and Optical Properties of Poly[3-(4-Octylphenyl)-Thiophene]. Molecular Crystals and Liquid Crystals, 1994, 256, 705-710.	0.3	5
146	Theoretical studies of optical absorption spectra of soliton containing polyenes. Chemical Physics Letters, 1993, 203, 81-87.	1.2	4
147	Charge storage states in polyenes. Journal of Chemical Physics, 1993, 99, 7938-7945.	1.2	20
148	A photoelectron spectroscopy study of the charge-induced Ï€-electronic structural changes in Î±.Ï‰.-diphenyltetradecaheptaene, a model molecule for polyacetylene. Synthetic Metals, 1993, 57, 4722-4727.	2.1	0
149	Calculation of oscillator strengths with the supercell method sub-bandgap transitions in conjugated polymers. Synthetic Metals, 1993, 57, 4614-4619.	2.1	8
150	Inter-chain coupling effects on the electronic structure of alkali doped trans-polyacetylene. Synthetic Metals, 1993, 57, 4278-4283.	2.1	2
151	The chemical and electronic structure of the interface between aluminum and conjugated polymers or molecules. Synthetic Metals, 1993, 55, 212-217.	2.1	64
152	The chemical and electronic structure of the interface between aluminum and polythiophene semiconductors. Journal of Chemical Physics, 1993, 99, 664-672.	1.2	162
153	Fundamental excitations inC60. Physical Review B, 1993, 48, 11367-11374.	1.1	33
154	Soliton pair charge storage in doped polyene molecules: Evidence from photoelectron spectroscopy studies. Physical Review Letters, 1993, 70, 970-973.	2.9	61
155	Effects of interchain interactions on the electronic structure of heavily dopedtrans-polyacetylene. Physical Review B, 1993, 47, 12437-12444.	1.1	35
156	Supercell representation of localized defects: A method for calculating band-gap states in conjugated polymers. Physical Review B, 1992, 46, 4551-4558.	1.1	3
157	Core xâ€ray photoelectron shakeâ€up states of model molecules for polyaniline. Journal of Chemical Physics, 1992, 97, 137-144.	1.2	16
158	Theoretical investigations of the aluminum/polythiophene interface. Journal of Chemical Physics, 1992, 97, 9144-9153.	1.2	53
159	The electronic structure of Î±,Ï‰-diphenyltetradecaheptaene, a model molecule for polyacetylene, as studied by photoelectron spectroscopy. Synthetic Metals, 1992, 51, 187-195.	2.1	17
160	GEOMETRICAL AND ELECTRONIC STRUCTURE OF C60 ANIONS. International Journal of Modern Physics B, 1992, 06, 3853-3858.	1.0	4
161	The effect of inter-chain coupling properties of doped trans-polyacetylene. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 2099-2100.	1.0	7
162	Ab initio Hartreeâ€"Fock studies of the binding energy of a soliton to a sodium counterion in doped trans-polyacetylene. Chemical Physics Letters, 1992, 190, 407-412.	1.2	7

#	Article	IF	Citations
163	Photoelectron studies of trans-polyacetylene using synchrotron radiation. Synthetic Metals, 1991, 41, 1365-1368.	2.1	12
164	Soliton-impurity interaction in heavily doped trans-polyacetylene. Synthetic Metals, 1991, 43, 3657-3662.	2.1	4
165	Stretch-oriented poly(3-alkylthiophenes). Synthetic Metals, 1991, 41, 593-596.	2.1	9
166	The evolution of the electronic structure of polyacetylene, poly(p-phenylene), and the copolymer poly(p-phenylenevinylene) as studied by photoelectron spectroscopy. Synthetic Metals, 1991, 41, 1315-1318.	2.1	3
167	Ab initio studies of soliton defects in trans-polyacetylene. Synthetic Metals, 1991, 43, 3467-3470.	2.1	7
168	Ab initio calculations of trans-polyacetylene clusters including sodium counterions. Synthetic Metals, 1991, 44, 65-74.	2.1	8
169	Polaron defects in emeraldine. Synthetic Metals, 1991, 43, 3697-3700.	2.1	2
170	Soliton lattice in highly dopedtrans-polyacetylene. Physical Review B, 1991, 43, 9158-9170.	1.1	49
171	Electronic properties of highly dopedtrans-polyacetylene. Physical Review B, 1991, 44, 12737-12741.	1.1	4
172	Optical anisotropy of neutral and doped poly(3-octylthiophene). Solid State Communications, 1990, 76, 203-208.	0.9	23
173	Electronic structure of polyimide and related monomers: Theory and experiment. Physical Review B, 1990, 41, 1645-1656.	1.1	34
174	The polyâ€3â€hexylthiophene/NOPF6 system: A photoelectron spectroscopy study of electronic structural changes induced by the charge transfer in the solid state. Journal of Chemical Physics, 1990, 93, 4433-4439.	1.2	55
175	Direct observation of charge-inducedÏ€-electronic structural changes in a conjugated polymer. Physical Review Letters, 1989, 63, 1841-1844.	2.9	116
176	The valence electronic structure of isotactic polystyrene revisited. Chemical Physics Letters, 1989, 164, 240-246.	1.2	14
177	Optical absorption of poly(3-alkylthiophenes) at low temperatures. Solid State Communications, 1989, 71, 435-439.	0.9	127
178	Electronic excitation properties of trans-polyacetylene and polythiophene as a function of doping level. Synthetic Metals, 1989, 28, D477-D482.	2.1	3
179	Evolution of the electronic structure of polyacetylene and polythiophene as a function of doping level and lattice conformation. Physical Review B, 1988, 38, 4180-4191.	1.1	139
180	Pthalimide on copper: A model system to address certain siteâ€specific interactions at the polyimideâ€“copper interface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 3134-3139.	0.9	22

#	Article	IF	Citations
181	Band Structure Calculations for the Polaron Lattice in the Highly Doped Regime of Polyacetylene, Polythiophene, and Polyaniline. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1988, 160, 405-420.	0.3	5
182	An experimental and theoretical study of the valence electron properties of crystal violet. Physica Scripta, 1988, 37, 831-835.	1.2	1
183	Ultra Violet and X-Ray Photoelectron Spectroscopy of Crystal Violet. Physica Scripta, 1987, 35, 551-556.	1.2	5
184	Defect states in polyaniline. Synthetic Metals, 1987, 18, 387-392.	2.1	12
185	Polaron lattice in highly conducting polyaniline: Theoretical and optical studies. Physical Review Letters, 1987, 59, 1464-1467.	2.9	841
186	Geometry of polyaniline. Synthetic Metals, 1986, 16, 31-39.	2.1	62
187	Evolution of structure and electronic properties in oxidized polyaniline as a function of the torsion angle between adjacent rings. Synthetic Metals, 1986, 14, 297-308.	2.1	62
188	Defect states in polyemeraldine. Chemical Physics Letters, 1986, 131, 414-419.	1.2	14
189	Electron Correlation Vs Peierls Distortion In Polyacetylene. Molecular Crystals and Liquid Crystals, 1985, 118, 45-48.	0.9	4
190	Three-dimensional effects intrans-polyacetylene. Physical Review B, 1985, 32, 4060-4065.	1.1	17
191	Localization of kinks in a system of commensurability 3. Physical Review B, 1985, 31, 6058-6062.	1.1	10
192	Polaron-bipolaronâ€"soliton doping in polyacetylene. Physical Review B, 1984, 30, 2098-2103.	1.1	68
193	Exact numerical investigation of the polaron-soliton generation in polyacetylene. Physical Review B, 1984, 29, 7010-7011.	1.1	46
194	Soliton states in polyacetylene. Physical Review B, 1984, 29, 2255-2266.	1.1	20
195	Interacting stereo-irregular chains: A model for conducting polymers. International Journal of Quantum Chemistry, 1983, 23, 1363-1383.	1.0	0
196	Intrinsic and extrinsic disorder effects. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 99, 243-246.	0.9	2
197	Magnetic properties of coupled chains. Journal of Magnetism and Magnetic Materials, 1983, 31-34, 1161-1162.	1.0	0
198	Correlation and disorder effects on the soliton states in a model polymer. Journal of Physics C: Solid State Physics, 1983, 16, L985-L989.	1.5	1

#	Article	IF	Citations
199	Quantitative measure of the electron localization in disordered systems with long-range hopping. Physical Review B, 1983, 27, 6158-6165.	1.1	7
200	Electrons in coupled stereo-irregular chains. Physical Review B, 1983, 28, 2199-2211.	1.1	1
201	The effect of disorder in stereo-irregular polymer chains. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1983, 47, 247-257.	0.6	1
202	Electron localization in a model polymer. Physical Review B, 1982, 26, 4691-4698.	1.1	10
203	Local antiferromagnetic ordering in coupled stereo-irregular chains. Physics Letters, Section A: General, Atomic and Solid State Physics, 1982, 91, 181-184.	0.9	0
204	Electron localization and the transition from adiabatic to nonadiabatic charge transport in organic conductors. , 0, .		1