Martin Knupfer

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5402332/publications.pdf

Version: 2024-02-01

123 papers	3,290 citations	159525 30 h-index	168321 53 g-index
124 all docs	124 docs citations	124 times ranked	4720 citing authors

#	Article	IF	Citations
1	Optical Anisotropy and Momentum-Dependent Excitons in Dibenzopentacene Single Crystals. ACS Omega, 2022, 7, 21183-21191.	1.6	4
2	Supramolecular chirality in the crystals of mononuclear and polymeric cobalt(ii) complexes with enantiopure and racemic N-thiophosphorylated thioureas. CrystEngComm, 2021, 23, 2081-2090.	1.3	1
3	New charge-transfer states in blends of ZnPC with F8ZnPC. AIP Advances, 2021, 11, 025230.	0.6	3
4	Strong Photophysical Diversity and the Role of Charge Transfer Excitons in Transition Metal Phthalocyanine Î²-Phases. Journal of Physical Chemistry C, 2021, 125, 12398-12404.	1.5	6
5	Photoemission Study of Charge Transfer between ET (BEDT-TTF) and Acceptors F₆TCNNQ and F₂TCNQ. Journal of Physical Chemistry C, 2021, 125, 18961-18967.	1.5	3
6	Exciton dispersion in para-quaterphenyl: Significant molecular interactions beyond Coulomb coupling. AIP Advances, 2021, 11, 095313.	0.6	2
7	Integrated molecular diode as 10â€‰MHz half-wave rectifier based on an organic nanostructure heterojunction. Nature Communications, 2020, 11, 3592.	5.8	25
8	Synthesis and charge transfer characteristics of a rutheniumâ€“acetylide complex. RSC Advances, 2020, 10, 43242-43247.	1.7	1
9	Evidence for an orbital dependent Mott transition in the ladders of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi>La</mml:mi> ma. Physical Review B, 2020, 101, .	1.1	3
10	Charge transfer characteristics of F 6 TCNNQâ€“gold interface. Surface and Interface Analysis, 2020, 52, 953-956.	0.8	5
11	Photoelectron Spectroscopy on Polycyclic Hydrocarbonâ€“F₆TCNNQ Interfaces. Journal of Physical Chemistry C, 2020, 124, 2961-2967.	1.5	5
12	Investigation of potassium-intercalated bulk<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml transmission electron energy-loss spectroscopy. Physical Review B, 2020, 101, .	1.1	5
13	Evidence for the charged nature of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">HfS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">HfSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> : Phase stability, structure, and electronic structure. Physical Review Materials, 2020, 4.	0.9	6
14	Low-temperature enhancement of ferromagnetic Kitaev correlations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>â^’</mml:mo><mml:mi>Ru</mml:mi> Physical Review Materials, 2020, 4, .	0.9	20
15	Evolution of Structure and Electronic Correlations in a Series of BaT₂As₂ (T) Tj ETQq1 1 0.784314 rgBT /Over	1.9	2
16	Charge-Transfer Complexes of Linear Acenes with a New Acceptor Perfluoroanthraquinone. The Interplay of Charge-Transfer and FÂ·Â·Â·F Interactions. Crystal Growth and Design, 2019, 19, 5123-5131.	1.4	6
17	Evolution of the charge carrier plasmon in the one-dimensional metal TTF-TCNQ as a function of temperature and momentum. Materials Research Express, 2019, 6, 106319.	0.8	0
18	Nonlocal dielectric function and nested dark excitons in MoS2. Npj 2D Materials and Applications, 2019, 3, .	3.9	8

#	Article	IF	Citations
19	An unusual donorâ€“acceptor system Mn^{II}Pc-TCNQ/F₄-TCNQ and the properties of the mixed single crystals of metal phthalocyanines with organic acceptor molecules. Dalton Transactions, 2019, 48, 17252-17257.	1.6	3
20	Charge Transfer at the Interface Between MnPc and F 6 TCNNQ. Physica Status Solidi (B): Basic Research, 2019, 256, 1800245.	0.7	6
21	Electronic excitations of manganese phthalocyanine molecules. Journal of Chemical Physics, 2018, 148, 044701.	1.2	0
22	Investigation of indirect excitons in bulk 2H-MoS₂using transmission electron energy-loss spectroscopy. Journal of Physics Condensed Matter, 2018, 30, 205502.	0.7	5
23	Mapping of the energetically lowest exciton in bulk<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mo>â€™</mml:mo> Physical Review B, 2018, 98, .	1.1	6
24	Complex momentum behavior of electronic excitations in Î²-CuPc. Journal of Chemical Physics, 2018, 149, 084704.	1.2	5
25	Electron Transfer and Unusual Chemical Transformations of F4â€TCNQ in a Reaction with Mnâ€Phthalocyanine. European Journal of Inorganic Chemistry, 2018, 2018, 3344-3353.	1.0	10
26	Particular electronic properties of F16CoPc: A decent electron acceptor material. Journal of Electron Spectroscopy and Related Phenomena, 2017, 215, 1-7.	0.8	13
27	H-aggregated small molecular nanowires as near infrared absorbers for organic solar cells. Organic Electronics, 2017, 45, 198-202.	1.4	12
28	Unscreened plasmon dispersion of2Htransition metal dichalcogenides. Physical Review B, 2017, 95, .	1.1	3
29	Semiconductor-to-metal transition in the bulk of WSe₂upon potassium intercalation. Journal of Physics Condensed Matter, 2017, 29, 165502.	0.7	6
30	Surface functionalization of WSe₂ by F₁₆CoPc. Physica Status Solidi (B): Basic Research, 2017, 254, 1600656.	0.7	2
31	Charge transfer from and to manganese phthalocyanine: bulk materials and interfaces. Beilstein Journal of Nanotechnology, 2017, 8, 1601-1615.	1.5	11
32	Energy-level alignment at interfaces between manganese phthalocyanine and C₆₀. Beilstein Journal of Nanotechnology, 2017, 8, 927-932.	1.5	5
33	Charge Transfer, Bandâ€Like Transport, and Magnetic Ions at F₁₆CoPc/Rubrene Interfaces. Advanced Materials Interfaces, 2016, 3, 1500863.	1.9	13
34	Electronic properties of the charge transfer material MnPc/F4TCNQ. Journal of Chemical Physics, 2016, 145, 114702.	1.2	11
35	Negative plasmon dispersion in 2H-NbS₂beyond the charge-density-wave interpretation. New Journal of Physics, 2016, 18, 103050.	1.2	10
36	STM Study of Au(111) Surface-Grafted Paramagnetic Macrocyclic Complexes [Ni₂L(Hmba)]⁺ via Ambidentate Coligands. Langmuir, 2016, 32, 4464-4471.	1.6	9

#	Article	IF	Citations
37	Doping dependent plasmon dispersion in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>H</mml:mi></mml:mrow></mml:math> metal dichalcogenides. Physical Review B, 2016, 94, .	1.1	7
38	Crystal Growth, Dynamic and Charge Transfer Properties of New Coronene Charge Transfer Complexes. Crystal Growth and Design, 2016, 16, 331-338.	1.4	45
39	Investigation of the dispersion and the effective masses of excitons in bulk<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>H</mml:mi></mml:mrow></mml:math> transition electron energy-loss spectroscopy. Physical Review B, 2015, 91, .	1.1	26
40	Impact of potassium doping on the electronic structure of tetracene and pentacene: An electron energy-loss study. Journal of Chemical Physics, 2015, 143, 154708.	1.2	7
41	Electronic properties of Mn-phthalocyanineâ€“C60 bulk heterojunctions: Combining photoemission and electron energy-loss spectroscopy. Journal of Applied Physics, 2015, 118, .	1.1	4
42	Low-energy exciton pocket at finite momentum in tetracene molecular solids. Europhysics Letters, 2015, 112, 37004.	0.7	10
43	Electronic excitation spectrum of doped organic thin films investigated using electron energy-loss spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 23-28.	0.8	1
44	An electron energy-loss study of picene and chrysene based charge transfer salts. Journal of Chemical Physics, 2015, 142, 184702.	1.2	3
45	Encapsulation of the 4-Mercaptobenzoate Ligand by Macrocyclic Metal Complexes: Conversion of a Metallocavitand to a Metalloligand. Inorganic Chemistry, 2014, 53, 10825-10834.	1.9	11
46	Toward Synthesis and Characterization of Unconventional C₆₆ and C₆₈ Fullerenes inside Carbon Nanotubes. Journal of Physical Chemistry C, 2014, 118, 30260-30268.	1.5	6
47	Epitaxial growth and electronic properties of well ordered phthalocyanine heterojunctions MnPc/F16CoPc. Journal of Chemical Physics, 2014, 141, 094706.	1.2	10
48	Determination of the Charge Transport Mechanisms in Ultrathin Copper Phthalocyanine Vertical Heterojunctions. Journal of Physical Chemistry C, 2014, 118, 7272-7279.	1.5	39
49	Crystal Growth, Structure, and Transport Properties of the Charge-Transfer Salt Picene/2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane. Crystal Growth and Design, 2014, 14, 1338-1346.	1.4	66
50	Electron energy-loss spectroscopy: A versatile tool for the investigations of plasmonic excitations. Journal of Electron Spectroscopy and Related Phenomena, 2014, 195, 85-95.	0.8	65
51	Chemisorption of Exchangeâ€Coupled [Ni₂L(dppba)]⁺ Complexes on Gold by Using Ambidentate 4â€(Diphenylphosphino)benzoate Coâ€Ligands. Chemistry - A European Journal, 2013, 19, 7787-7801.	1.7	6
52	Phthalocyanine dimers in a blend: Spectroscopic and theoretical studies of MnPcÎ´+/F16CoPcÎ´â». Journal of Chemical Physics, 2013, 138, 024707.	1.2	17
53	The complex nature of phthalocyanine/gold interfaces. Applied Surface Science, 2013, 267, 62-65.	3.1	34
54	Kinetic Isotope Effect in the Hydrogenation and Deuteration of Graphene. Advanced Functional Materials, 2013, 23, 1628-1635.	7.8	38

#	Article	IF	Citations
55	Electronic excitation spectrum of calcium-doped picene: Electron energy-loss spectroscopy study. Physical Review B, 2013, 88, .	1.1	0
56	Systematic theoretical investigation of the phthalocyanine based dimer: MnPc<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mi>Î´</mml:mi><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math>/F<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>16</mml:mn></mml:msub></mml:math>CoPc<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:	1.1	8
57	Challenging the nature of low-energy plasmon excitations in CaC 6 using electron energy-loss spectroscopy. Europhysics Letters, 2013, 102, 17001.	0.7	7
58	Loss spectroscopy of molecular solids: combining experiment and theory. New Journal of Physics, 2013, 15, 125024.	1.2	15
59	Electronic properties of spiro compounds for organic electronics. Journal of Chemical Physics, 2012, 136, 124702.	1.2	9
60	Absence of photoemission from the Fermi level in potassium intercalated picene and coronene films: Structure, polaron, or correlation physics?. Journal of Chemical Physics, 2012, 136, 134503.	1.2	50
61	Comprehensive studies of the electronic structure of pristine and potassium doped chrysene investigated by electron energy-loss spectroscopy. Journal of Chemical Physics, 2012, 137, 114508.	1.2	11
62	Hybrid States and Charge Transfer at a Phthalocyanine Heterojunction:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>MnPc</mml:mi><mml:mrow><mml:mi>Î´</mml:mi><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math>/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" mathvariant="bold">F</mml:mi><mml:mn>16</mml:mn></mml:msub><mml:mi>CoPc</mml:mi></mml:mrow><mml:mrow><mml:mi>Î	2.9	82
63	Electronic structure of undoped and potassium-doped coronene investigated by electron energy-loss spectroscopy. Physical Review B, 2012, 85, .	1.1	28
64	Understanding High-Yield Catalyst-Free Growth of Horizontally Aligned Single-Walled Carbon Nanotubes Nucleated by Activated C60 Species. ACS Nano, 2012, 6, 10825-10834.	7.3	24
65	Probing Local Hydrogen Impurities in Quasi-Free-Standing Graphene. ACS Nano, 2012, 6, 10590-10597.	7.3	24
66	Site-Dependent Donation/Backdonation Charge Transfer at the CoPc/Ag(111) Interface. Langmuir, 2012, 28, 13325-13330.	1.6	45
67	Electronic properties of 1,2;8,9-dibenzopentacene thin films: A joint experimental and theoretical study. Physical Review B, 2012, 86, .	1.1	8
68	Momentum dependence of the excitons in pentacene. Journal of Chemical Physics, 2012, 136, 204708.	1.2	43
69	Programmable Sub-nanometer Sculpting of Graphene with Electron Beams. ACS Nano, 2012, 6, 10327-10334.	7.3	53
70	Crystalline Organic Heterostructures Engineering Based on Vanadyl Phthalocyanine and Rodâ€Like Conjugated Organic Semiconductors with Selected Central Groups. Advanced Functional Materials, 2012, 22, 4598-4607.	7.8	23
71	Surfactant free fractions of metallic and semiconducting single-walled carbon nanotubes via optimised gel chromatography. Materials Research Bulletin, 2012, 47, 687-691.	2.7	11
72	Hole Transparent and Hole Blocking Transport in Single-Crystal-Like Organic Heterojunction: When Rods Hold up Disks. ACS Applied Materials & Interfaces, 2011, 3, 2195-2199.	4.0	11

#	Article	IF	Citations
73	Initial Growth of Lutetium(III) Bis-phthalocyanine on Ag(111) Surface. Journal of the American Chemical Society, 2011, 133, 5538-5544.	6.6	33
74	Charge transfer at F16CoPc and CoPc interfaces to Au. Applied Physics A: Materials Science and Processing, 2011, 105, 921-925.	1.1	22
75	Evidence for a New Twoâ€Dimensional C₄Hâ€Type Polymer Based on Hydrogenated Graphene. Advanced Materials, 2011, 23, 4497-4503.	11.1	90
76	Identification of the electronic states of manganese phthalocyanine close to the Fermi level. Chemical Physics Letters, 2011, 505, 122-125.	1.2	49
77	Initial growth at the F16CoPc/Ag(111) interface. Surface Science, 2011, 605, 1510-1515.	0.8	25
78	Single crystal strontium titanate surface and bulk modifications due to vacuum annealing. Journal of Applied Physics, 2011, 110, .	1.1	29
79	Plasmon dispersion in molecular solids: Picene and potassium-doped picene. Physical Review B, 2011, 84, .	1.1	28
80	Dynamic response and electronic structure of potassium-doped picene investigated by electron energy-loss spectroscopy. Physical Review B, 2011, 83, .	1.1	26
81	Exciton character in picene molecular solids. Physical Review B, 2011, 83, .	1.1	27
82	Effect of Charge Order on the Plasmon Dispersion in Transition-Metal Dichalcogenides. Physical Review Letters, 2011, 107, 176404.	2.9	50
83	Electronic excitations of potassium intercalated manganese phthalocyanine investigated by electron energy-loss spectroscopy. Journal of Chemical Physics, 2011, 134, 194504.	1.2	11
84	Probing the molecular orbitals of FePc near the chemical potential using electron energy-loss spectroscopy. European Physical Journal B, 2010, 74, 339-344.	0.6	11
85	Investigating the Outskirts of Fe and Co Catalyst Particles in Alumina-Supported Catalytic CVD Carbon Nanotube Growth. ACS Nano, 2010, 4, 1146-1152.	7.3	48
86	Electronic properties of molecular solids: the peculiar case of solid picene. New Journal of Physics, 2010, 12, 103036.	1.2	46
87	Plasmons and interband transitions ofCa11Sr3Cu24O41investigated by electron energy-loss spectroscopy. Physical Review B, 2010, 82, .	1.1	7
88	Graphene Synthesis on Cubic SiC/Si Wafers. Perspectives for Mass Production of Graphene-Based Electronic Devices. Nano Letters, 2010, 10, 992-995.	4.5	199
89	Energy Level Alignment and Interactions at Potential Contacts for Spin Injection into Organic Semiconductors. Advanced Engineering Materials, 2009, 11, 285-290.	1.6	8
90	The electronic excitation spectrum of CuPcF16 films. Applied Physics A: Materials Science and Processing, 2009, 94, 179-183.	1.1	6

#	Article	IF	Citations
91	Characterization of the electronic excitations in Alq3 using electron energy-loss spectroscopy. Applied Physics A: Materials Science and Processing, 2009, 94, 31-34.	1.1	6
92	Energy level alignment at interfaces between organic semiconductors and clean ferromagnetic La0.7Sr0.3MnO3 thin film contacts for spin injection. Applied Physics A: Materials Science and Processing, 2009, 95, 95-99.	1.1	8
93	Orientation and electronic properties of phthalocyanines on polycrystalline substrates. Physica Status Solidi (B): Basic Research, 2009, 246, 1529-1545.	0.7	75
94	Ferromagnetic cobalt and iron top contacts on an organic semiconductor: Evidence for a reacted interface. Organic Electronics, 2009, 10, 8-11.	1.4	27
95	Hydrogen activated axial inter-conversion in SiC nanowires. Journal of Solid State Chemistry, 2009, 182, 602-607.	1.4	12
96	How Photoelectron Spectroscopy and Quantum Chemical Studies Can Help Understanding the Magnetic Properties of Molecules: An Example from the Class of Cu(II)â˜Bis(oxamato) Complexes. Journal of Physical Chemistry B, 2009, 113, 10051-10054.	1.2	3
97	Investigating the Graphitization Mechanism of SiO₂ Nanoparticles in Chemical Vapor Deposition. ACS Nano, 2009, 3, 4098-4104.	7.3	89
98	Lossâ€spectroscopy on sparse arrays of aligned singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2284-2287.	0.7	7
99	Electronic structure of 1,3,5-trithia-2,4,6-triazapentalenyl on gold. Chemical Physics Letters, 2008, 451, 58-62.	1.2	3
100	Prediction of the Equilibrium Structures and Photomagnetic Properties of the Prussian Blue Analogue RbMn[Fe(CN)₆] by Density Functional Theory. Journal of Physical Chemistry A, 2008, 112, 5742-5748.	1.1	17
101	Unoccupied electronic states in an organic semiconductor probed with x-ray spectroscopy and first-principles calculations. Journal of Chemical Physics, 2008, 129, 154705.	1.2	16
102	Quasi-One-Dimensional K-O Chain in PTCDA Thin Films: Evidence from First-Principles Calculations. Physical Review Letters, 2007, 98, 046401.	2.9	18
103	Charge-Injection Barriers at Realistic Metal/Organic Interfaces: Metals Become Faceless. Advanced Materials, 2007, 19, 754-756.	11.1	46
104	Interface Fermi Level Pinning at Contacts Between PEDOT:â€‰PSS and Molecular Organic Semiconductors. ChemPhysChem, 2007, 8, 386-390.	1.0	31
105	Energy level alignment and interface states at Î±-sexithiophene/Ag interfaces. Organic Electronics, 2007, 8, 625-630.	1.4	26
106	Formation of sharp metal-organic semiconductor interfaces: Ag and Sn on CuPc. European Physical Journal B, 2007, 57, 379-384.	0.6	6
107	Anisotropic dynamic response of pentacene single crystals. European Physical Journal B, 2007, 59, 25-28.	0.6	0
108	Electronic structure of pristine CuPc: Experiment and calculations. Applied Surface Science, 2007, 254, 20-25.	3.1	37

#	Article	IF	Citations
109	Dispersion of electronâ€“hole excitations in pentacene along (100). Chemical Physics, 2006, 325, 92-98.	0.9	19
110	Electronic structure and work function of potassium-doped PTCDA thin films. Applied Physics A: Materials Science and Processing, 2006, 84, 329-333.	1.1	14
111	Electronic properties of the interface between Î±,ï‰-dihexyl-quaterthiophene and gold. Surface Science, 2005, 595, 165-171.	0.8	21
112	Bulk quantity and physical properties of boron nitride nanocapsules with a narrow size distribution. Carbon, 2005, 43, 615-621.	5.4	9
113	Novel Catalysts, Room Temperature, and the Importance of Oxygen for the Synthesis of Single-Walled Carbon Nanotubes. Nano Letters, 2005, 5, 1209-1215.	4.5	120
114	The Electronic and Vibrational Structure of Endohedral Tm3N@C80 (I) Fullerene â^' Proof of an Encaged Tm3+. Journal of Physical Chemistry A, 2005, 109, 7088-7093.	1.1	69
115	Elimination of metal catalyst and carbon-like impurities from single-wall carbon nanotube raw material. Applied Physics A: Materials Science and Processing, 2004, 78, 311-314.	1.1	26
116	Electronic properties of interfaces between model organic semiconductors and metals. Physica Status Solidi A, 2004, 201, 1055-1074.	1.7	119
117	Size and dispersion of excitons in organic semiconductors. Synthetic Metals, 2004, 141, 21-27.	2.1	8
118	Exciton binding energies in organic semiconductors. Applied Physics A: Materials Science and Processing, 2003, 77, 623-626.	1.1	365
119	Electronic properties of carbon nanostructures. Surface Science Reports, 2001, 42, 1-74.	3.8	138
120	Frenkel and charge-transfer excitons inC60. Physical Review B, 1999, 60, 10731-10734.	1.1	29
121	On-Ball Doping of Fullerenes: The Electronic Structure ofC59N Dimers from Experiment and Theory. Physical Review Letters, 1997, 78, 4249-4252.	2.9	79
122	Mott-Hubbard-like Behavior of the Energy Gap ofA4C60(A=Na,K,Rb,Cs)andNa10C60. Physical Review Letters, 1997, 79, 2714-2717.	2.9	86
123	Dispersion of a Hole in a Two-DimensionalCu3O4Plane: A Tale of Two Singlets. Physical Review Letters, 1997, 78, 4107-4110.	2.9	19