Christian Kloc

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102 papers	8,823 citations	39 h-index	93 g-index
112 ext. papers	9,872 ext. citations	7.5 avg, IF	5.85 L-index

#	Paper	IF	Citations
102	Revealing ultrafast relaxation dynamics in six-thiophene thin film and single crystal. *Journal of Photochemistry and Photobiology A: Chemistry*, **2021**, 404, 112920	4.7	4
101	Singlet Fission, Polaron Formation, and Energy Transfer in Indolo[3,2-b]carbazole Thin Films and Single Crystals. *Journal of Physical Chemistry C*, **2021**, 125, 18827-18833	3.8	0
100	Ultrafast Tuning of Various Photochemical Pathways in Perylene□TCNQ Charge-Transfer Crystals. *Journal of Physical Chemistry C*, **2020**, 124, 13894-13901	3.8	10
99	Single-photon upconversion in 6-pentaceneone crystal from bulk to ultrathin flakes. *Nanoscale*, **2020**, 12, 6227-6232	7.7	6
98	Tuning the □□overlap and charge transport in single crystals of an organic semiconductor via solvation and polymorphism. *Physical Chemistry Chemical Physics*, **2020**, 22, 19855-19863	3.6	3
97	Trisulfide-Bond Acenes for Organic Batteries. *Angewandte Chemie*, **2019**, 131, 13647-13655	3.6	6
96	Trisulfide-Bond Acenes for Organic Batteries. *Angewandte Chemie - International Edition*, **2019**, 58, 13513-13521	16.4	19
95	High power Na-ion capacitor with TiS2 as insertion host. *Scripta Materialia*, **2019**, 161, 54-57	5.6	14
94	From Linear to Angular Isomers: Achieving Tunable Charge Transport in Single-Crystal Indolocarbazoles Through Delicate Synergetic CH/NH???□Interactions. *Angewandte Chemie - International Edition*, **2018**, 57, 8875-8880	16.4	31
93	Impact of C□H□□X (X = F, N) and □Interactions on Tuning the Degree of Charge Transfer in F6TNAP-Based Organic Binary Compound Single Crystals. *Crystal Growth and Design*, **2018**, 18, 1776-1785	3.5	28
92	Preparation of High-Percentage 1T-Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. *Advanced Materials*, **2018**, 30, 1705509	24	234
91	Two Dimensional TiS2 as a Promising Insertion Anode for Na-Ion Battery. *ChemistrySelect*, **2018**, 3, 524-528	2.8	34
90	From Linear to Angular Isomers: Achieving Tunable Charge Transport in Single-Crystal Indolocarbazoles Through Delicate Synergetic CH/NH???□Interactions. *Angewandte Chemie*, **2018**, 130, 9013-9018	3.6	11
89	Innenr□cktitelbild: From Linear to Angular Isomers: Achieving Tunable Charge Transport in Single-Crystal Indolocarbazoles Through Delicate Synergetic CH/NH???□Interactions (Angew. Chem. 29/2018). *Angewandte Chemie*, **2018**, 130, 9327-9327	3.6	
88	Hole Mobility Modulation in Single-Crystal Metal Phthalocyanines by Changing the Metal-/□□ Interactions. *Angewandte Chemie - International Edition*, **2018**, 57, 10112-10117	16.4	30
87	Evidence of Low-Temperature Phase Transition in Tetracene□Tetracyanoquinodimethane Complex. *Crystal Growth and Design*, **2018**, 18, 4095-4102	3.5	11
86	Preparation of 1TRPhase ReSSe (x = 0-1) Nanodots for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. *Journal of the American Chemical Society*, **2018**, 140, 8563-8568	16.4	77

85	Unusual Li-Storage Behaviour of Two-Dimensional ReS2 Single Crystals. *Batteries and Supercaps*, **2018**, 1, 69-74	5.6	3
84	Tuning of the degree of charge transfer and the electronic properties in organic binary compounds by crystal engineering: a perspective. *Journal of Materials Chemistry C*, **2018**, 6, 1884-1902	7.1	110
83	Hole Mobility Modulation in Single-Crystal Metal Phthalocyanines by Changing the Metal–π Interactions. *Angewandte Chemie*, **2018**, 130, 10269-10274	3.6	7
82	Exploring two dimensional Co0.33In2.67S2.29Se1.71 as alloy type negative electrode for Li-ion battery with olivine LiFePO4 cathode. *Materials Today Energy*, **2018**, 9, 19-26	7	1
81	Field-Effect Devices: Molecular Crystal Engineering: Tuning Organic Semiconductor from p-type to n-type by Adjusting Their Substitutional Symmetry (Adv. Mater. 10/2017). *Advanced Materials*, **2017** , 29,	24	1
80	Unveiling two-dimensional TiS2 as an insertion host for the construction of high energy Li-ion capacitors. *Journal of Materials Chemistry A*, **2017**, 5, 9177-9181	13	62
79	Single-crystal growth, structures, charge transfer and transport properties of anthracene-F4TCNQ and tetracene-F4TCNQ charge-transfer compounds. *CrystEngComm*, **2017**, 19, 618-624	3.3	51
78	Molecular Crystal Engineering: Tuning Organic Semiconductor from p-type to n-type by Adjusting Their Substitutional Symmetry. *Advanced Materials*, **2017**, 29, 1605053	24	47
77	MoS2 for Ultrafast All-Optical Switching and Modulation of THz Fano Metaphotonic Devices. *Advanced Optical Materials*, **2017**, 5, 1700762	8.1	110
76	High energy Li-ion capacitors using two-dimensional TiSe0.6S1.4 as insertion host. *Journal of Materials Chemistry A*, **2017**, 5, 19819-19825	13	23
75	Raman spectroscopy of atomically thin two-dimensional magnetic iron phosphorus trisulfide (FePS 3) crystals. *2D Materials*, **2016**, 3, 031009	5.9	199
74	Rapid synthesis of transition metal dichalcogenide few-layer thin crystals by the microwave-induced-plasma assisted method. *Journal of Crystal Growth*, **2016**, 450, 140-147	1.6	28
73	Channels of oxygen diffusion in single crystal rubrene revealed. *Physical Chemistry Chemical Physics*, **2016**, 18, 32302-32307	3.6	2
72	CdS bulk crystal growth by optical floating zone method: strong photoluminescence upconversion and minimum trapped state emission. *Optical Engineering*, **2016**, 56, 011109	1.1	5
71	Additive manufacturing of micrometric crystallization vessels and single crystals. *Scientific Reports*, **2016**, 6, 36786	4.9	3
70	Control of Radiative Exciton Recombination by Charge Transfer Induced Surface Dipoles in MoS2 and WS2 Monolayers. *Scientific Reports*, **2016**, 6, 24105	4.9	27
69	Photoresponse: Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS2 (Adv. Funct. Mater. 8/2016). *Advanced Functional Materials*, **2016**, 26, 1146-1146	15.6	12
68	Optoelectronic properties of atomically thin ReSSe with weak interlayer coupling. *Nanoscale*, **2016**, 8, 5826-34	7.7	27

67	Weak Van der Waals Stacking, Wide-Range Band Gap, and Raman Study on Ultrathin Layers of Metal Phosphorus Trichalcogenides. *ACS Nano*, **2016**, 10, 1738-43	16.7	273
66	Preparation of Single-Layer MoS(2x)Se2(1-x) and Mo(x)W(1-x)S2 Nanosheets with High-Concentration Metallic 1T Phase. *Small*, **2016**, 12, 1866-74	11	91
65	Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS2. *Advanced Functional Materials*, **2016**, 26, 1169-1177	15.6	286
64	Single photon triggered dianion formation in TCNQ and F4TCNQ crystals. *Scientific Reports*, **2016**, 6, 28510	4.9	23
63	Second-harmonic generation in quaternary atomically thin layered AgInP2S6 crystals. *Applied Physics Letters*, **2016**, 109, 123103	3.4	14
62	Crystal Growth, HOMO–LUMO Engineering, and Charge Transfer Degree in Perylene-FxTCNQ (x = 1, 2, 4) Organic Charge Transfer Binary Compounds. *Crystal Growth and Design*, **2016**, 16, 3019-3027	3.5	110
61	Synthesis of SnS2 single crystals and its Li-storage performance with LiMn2O4 cathode. *Applied Materials Today*, **2016**, 5, 68-72	6.6	17
60	Van der Waals p–n Junction Based on an Organic–Inorganic Heterostructure. *Advanced Functional Materials*, **2015**, 25, 5865-5871	15.6	76
59	Charge-transfer complexes: new perspectives on an old class of compounds. *Journal of Materials Chemistry C*, **2014**, 2, 3065-3076	7.1	289
58	Ultrafast spectroscopic characterization of 7,7,8,8-tetracyanoquinodimethane (TCNQ) and its radical anion (TCNQ•−). *Chemical Physics Letters*, **2014**, 609, 11-14	2.5	27
57	Adjusting tetrathiafulvalene (TTF) functionality through molecular design for organic field-effect transistors. *CrystEngComm*, **2014**, 16, 5968	3.3	27
56	Excited-state dynamics in an α-perylene single crystal: two-photon- and consecutive two-quantum-induced singlet fission. *Journal of Physical Chemistry A*, **2014**, 118, 838-43	2.8	28
55	Fluorination of metal phthalocyanines: single-crystal growth, efficient N-channel organic field-effect transistors, and structure-property relationships. *Scientific Reports*, **2014**, 4, 7573	4.9	57
54	Solvent-Dependent Stoichiometry in Perylene–7,7,8,8-Tetracyanoquinodimethane Charge Transfer Compound Single Crystals. *Crystal Growth and Design*, **2014**, 14, 6376-6382	3.5	52
53	Zeeman-type spin splitting controlled by an electric field. *Nature Physics*, **2013**, 9, 563-569	16.2	368
52	Origin of indirect optical transitions in few-layer MoS2, WS2, and WSe2. *Nano Letters*, **2013**, 13, 5627-34	11.5	365
51	Lattice dynamics in mono- and few-layer sheets of WS2 and WSe2. *Nanoscale*, **2013**, 5, 9677-83	7.7	574
50	Single-crystal growth of organic semiconductors. *MRS Bulletin*, **2013**, 38, 28-33	3.2	87

49	Evolution of electronic structure in atomically thin sheets of WS2 and WSe2. *ACS Nano*, **2013**, 7, 791-7	16.7	1393
48	Photoluminescence emission and Raman response of monolayer MoS$_2$, MoSe$_2$, and WSe$_2$. *Optics Express*, **2013**, 21, 4908-16	3.3	1005
47	Impurities in zone-refining anthracene crystals. *Journal of Crystal Growth*, **2013**, 363, 61-68	1.6	19
46	Atomically flat, large-sized, two-dimensional organic nanocrystals. *Small*, **2013**, 9, 990-5	11	45
45	Two-photon-induced singlet fission in rubrene single crystal. *Journal of Chemical Physics*, **2013**, 138, 184508	3.3	27
44	Observation of atomic scale compositional and displacive modulations in incommensurate melilite electrolytes. *Journal of Solid State Chemistry*, **2013**, 203, 291-296	3.3	2
43	Effects of lower symmetry and dimensionality on Raman spectra in two-dimensional WSe2. *Physical Review B*, **2013**, 88,	3.3	175
42	Fluorescence from rubrene single crystals: Interplay of singlet fission and energy trapping. *Physical Review B*, **2013**, 87,	3.3	43
41	Organic Nanocrystals: Atomically Flat, Large-Sized, Two-Dimensional Organic Nanocrystals (Small 7/2013). *Small*, **2013**, 9, 962-962	11	3
40	In situ formation of new organic ligands to construct two novel self-charge-transfer Pb(II)-based frameworks. *CrystEngComm*, **2012**, 14, 75-78	3.3	22
39	Crystal chemistry of melilite [CaLa]2[Ga]2[Ga2O7]2: a five dimensional solid electrolyte. *Inorganic Chemistry*, **2012**, 51, 5941-9	5.1	15
38	Synthesis, crystal structure, and optical properties of a three-dimensional quaternary Hg-In-S-Cl chalcohalide: Hg7InS6Cl5. *Inorganic Chemistry*, **2012**, 51, 4414-6	5.1	35
37	Singlet fission in rubrene single crystal: direct observation by femtosecond pump-probe spectroscopy. *Physical Chemistry Chemical Physics*, **2012**, 14, 8307-12	3.6	165
36	Ultrathin organic single crystals: fabrication, field-effect transistors and thickness dependence of charge carrier mobility. *Journal of Materials Chemistry*, **2011**, 21, 4771		41
35	Five-dimensional incommensurate structure of the melilite electrolyte [CaNd]2[Ga]2[Ga2O7]2. *Journal of the American Chemical Society*, **2011**, 133, 15200-11	16.4	28
34	High-performance organic single-crystal field-effect transistors of indolo[3,2-b]carbazole and their potential applications in gas controlled organic memory devices. *Advanced Materials*, **2011**, 23, 5075-80, 5074	24	72
33	Organic Field-Effect Transistors: High-Performance Organic Single-Crystal Field-Effect Transistors of Indolo[3,2-b]carbazole and Their Potential Applications in Gas Controlled Organic Memory Devices (Adv. Mater. 43/2011). *Advanced Materials*, **2011**, 23, 5074-5074	24	3
32	A new hydrazine-bridged thioantimonate Mn2Sb4S8(N2H4)2: Synthesis, structure, optical and magnetic properties. *Inorganic Chemistry Communication*, **2011**, 14, 884-888	3.1	36

31	Growth of Single-Crystal Organic Semiconductors **2010**, 845-867		6
30	Molecular ordering in bis(phenylenyl)bithiophenes. *Journal of Materials Chemistry*, **2007**, 17, 3427		11
29	Role of synthesis for oxygen defect incorporation in crystalline rubrene. *Applied Physics Letters*, **2007**, 91, 212106	3.4	41
28	Evidence of low intermolecular coupling in rubrene single crystals by Raman scattering. *Journal of Physics Condensed Matter*, **2007**, 19, 276204	1.8	32
27	Exciton and Defect Photoluminescence Signatures in Single Crystal Rubrene. *Materials Research Society Symposia Proceedings*, **2006**, 965, 1		
26	Organic single-crystal complementary inverter. *Applied Physics Letters*, **2006**, 89, 222111	3.4	33
25	Single crystal growth of organic semiconductors for field effect applications **2006**, 6336, 633606		1
24	Oxygen-related band gap state in single crystal rubrene. *Physical Review Letters*, **2006**, 97, 166601	7.4	103
23	Field Effect Studies on Rubrene and Impurities of Rubrene. *Chemistry of Materials*, **2006**, 18, 244-248	9.6	168
22	Diquino[3,4-b;4?,3?-e][1,4]dithiine. *Acta Crystallographica Section E: Structure Reports Online*, **2006**, 62, o1333-o1335		
21	Pentacene disproportionation during sublimation for field-effect transistors. *Journal of the American Chemical Society*, **2005**, 127, 3069-75	16.4	182
20	Organic Semiconductor Designed for Lamination Transfer between Polymer Films. *Chemistry of Materials*, **2005**, 17, 5748-5753	9.6	24
19	Single-Crystal Field-Effect Transistors Based on Organic Selenium-Containing Semiconductor. *Japanese Journal of Applied Physics*, **2005**, 44, 3712-3714	1.4	19
18	Plastic electronic devices: From materials design to device applications. *Bell Labs Technical Journal*, **2005**, 10, 87-105	0.5	52
17	X-ray structure of 14-phenyldiquino[3,4 b;4?,3?-e][1,4]thiazine(1). *Journal of Chemical Crystallography*, **2005**, 35, 731-736	0.5	7
16	Synthesis and Structure of Dipyrido-1,4-dithiins. *Heterocycles*, **2005**, 65, 2619	0.8	5
15	Field-effect transistors made from macroscopic single crystals of tetracene and related semiconductors on polymer dielectrics. *Journal of Materials Research*, **2004**, 19, 1995-1998	2.5	17
14	Synthesis, crystal structure, and transistor performance of tetracene derivatives. *Journal of the American Chemical Society*, **2004**, 126, 15322-3	16.4	335

13	Resonant Raman scattering in nanoscale pentacene films. *Applied Physics Letters*, **2004**, 84, 987-989	3.4	44
12	Synthesis and X-Ray Analysis of Isomeric Diazadithiapentacenes. *Heterocycles*, **2003**, 60, 2045	0.8	9
11	A 2:1 cocrystal of 6,13-dihydropentacene and pentacene. *Acta Crystallographica Section E: Structure Reports Online*, **2002**, 58, o1229-o1231		23
10	Solid-state structural and electrical characterization of N-benzyl and N-alkyl naphthalene 1,4,5,8-tetracarboxylic diimides. *ChemPhysChem*, **2001**, 2, 167-72	3.2	43
9	Enhanced Physical Properties in a Pentacene Polymorph. *Angewandte Chemie - International Edition* , **2001**, 40, 1732-1736	16.4	171
8	Organic metal□semiconductor field-effect phototransistors. *Applied Physics Letters*, **2001**, 78, 3538-3540	3.4	20
7	Charge transport through a single tetracene grain boundary. *Applied Physics Letters*, **2001**, 78, 3821-3823	3.4	12
6	Ballistic hole transport in pentacene with a mean free path exceeding 30 □m. *Journal of Applied Physics*, **2001**, 90, 3419-3421	2.5	2
5	Fast organic electronic circuits based on ambipolar pentacene field-effect transistors. *Applied Physics Letters*, **2001**, 79, 4043-4044	3.4	17
4	Universal crossover from band to hopping conduction in molecular organic semiconductors. *Physical Review Letters*, **2001**, 86, 3843-6	7.4	62
3	Mobile iodine dopants in organic semiconductors. *Physical Review B*, **2000**, 61, 10803-10806	3.3	4
2	High Mobilities in Organic Molecular Crystals. *Materials Research Society Symposia Proceedings*, **1999**, 598, 506		4
1	Crystal Growth, Structure, and Electronic Band Structure of □4T Polymorphs. *Advanced Materials*, **1998**, 10, 379-382	24	245