

Christian Kloc

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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	Evolution of electronic structure in atomically thin sheets of WS ₂ and WSe ₂ . <i>ACS Nano</i> , 2013 , 7, 791-7	16.7	1393
101	Photoluminescence emission and Raman response of monolayer MoS ₂ /MoSe ₂ and WSe ₂ . <i>Optics Express</i> , 2013 , 21, 4908-16	3.3	1005
100	Lattice dynamics in mono- and few-layer sheets of WS ₂ and WSe ₂ . <i>Nanoscale</i> , 2013 , 5, 9677-83	7.7	574
99	Zeeman-type spin splitting controlled by an electric field. <i>Nature Physics</i> , 2013 , 9, 563-569	16.2	368
98	Origin of indirect optical transitions in few-layer MoS ₂ , WS ₂ , and WSe ₂ . <i>Nano Letters</i> , 2013 , 13, 5627-34	11.5	365
97	Synthesis, crystal structure, and transistor performance of tetracene derivatives. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15322-3	16.4	335
96	Charge-transfer complexes: new perspectives on an old class of compounds. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3065-3076	7.1	289
95	Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS ₂ . <i>Advanced Functional Materials</i> , 2016 , 26, 1169-1177	15.6	286
94	Weak Van der Waals Stacking, Wide-Range Band Gap, and Raman Study on Ultrathin Layers of Metal Phosphorus Trichalcogenides. <i>ACS Nano</i> , 2016 , 10, 1738-43	16.7	273
93	Crystal Growth, Structure, and Electronic Band Structure of 1T Polymorphs. <i>Advanced Materials</i> , 1998 , 10, 379-382	24	245
92	Preparation of High-Percentage 1T-Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, 1705509	24	234
91	Raman spectroscopy of atomically thin two-dimensional magnetic iron phosphorus trisulfide (FePS ₃) crystals. <i>2D Materials</i> , 2016 , 3, 031009	5.9	199
90	Pentacene disproportionation during sublimation for field-effect transistors. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3069-75	16.4	182
89	Effects of lower symmetry and dimensionality on Raman spectra in two-dimensional WSe ₂ . <i>Physical Review B</i> , 2013 , 88,	3.3	175
88	Enhanced Physical Properties in a Pentacene Polymorph. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1732-1736	16.4	171
87	Field Effect Studies on Rubrene and Impurities of Rubrene. <i>Chemistry of Materials</i> , 2006 , 18, 244-248	9.6	168
86	Singlet fission in rubrene single crystal: direct observation by femtosecond pump-probe spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8307-12	3.6	165

85	MoS ₂ for Ultrafast All-Optical Switching and Modulation of THz Fano Metaphotonic Devices. <i>Advanced Optical Materials</i> , 2017 , 5, 1700762	8.1	110
84	Crystal Growth, HOMO-LUMO Engineering, and Charge Transfer Degree in Perylene-FxTCNQ (x = 1, 2, 4) Organic Charge Transfer Binary Compounds. <i>Crystal Growth and Design</i> , 2016 , 16, 3019-3027	3.5	110
83	Tuning of the degree of charge transfer and the electronic properties in organic binary compounds by crystal engineering: a perspective. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1884-1902	7.1	110
82	Oxygen-related band gap state in single crystal rubrene. <i>Physical Review Letters</i> , 2006 , 97, 166601	7.4	103
81	Preparation of Single-Layer MoS(2x)Se ₂ (1-x) and Mo(x)W(1-x)S ₂ Nanosheets with High-Concentration Metallic 1T Phase. <i>Small</i> , 2016 , 12, 1866-74	11	91
80	Single-crystal growth of organic semiconductors. <i>MRS Bulletin</i> , 2013 , 38, 28-33	3.2	87
79	Preparation of 1T Phase ReS ₂ (x = 0-1) Nanodots for Highly Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8563-8568	16.4	77
78	Van der Waals p-n Junction Based on an Organic-Inorganic Heterostructure. <i>Advanced Functional Materials</i> , 2015 , 25, 5865-5871	15.6	76
77	High-performance organic single-crystal field-effect transistors of indolo[3,2-b]carbazole and their potential applications in gas controlled organic memory devices. <i>Advanced Materials</i> , 2011 , 23, 5075-80, 5074	24	72
76	Unveiling two-dimensional TiS ₂ as an insertion host for the construction of high energy Li-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9177-9181	13	62
75	Universal crossover from band to hopping conduction in molecular organic semiconductors. <i>Physical Review Letters</i> , 2001 , 86, 3843-6	7.4	62
74	Fluorination of metal phthalocyanines: single-crystal growth, efficient N-channel organic field-effect transistors, and structure-property relationships. <i>Scientific Reports</i> , 2014 , 4, 7573	4.9	57
73	Solvent-Dependent Stoichiometry in Perylene[7,8,8-Tetracyanoquinodimethane Charge Transfer Compound Single Crystals. <i>Crystal Growth and Design</i> , 2014 , 14, 6376-6382	3.5	52
72	Plastic electronic devices: From materials design to device applications. <i>Bell Labs Technical Journal</i> , 2005 , 10, 87-105	0.5	52
71	Single-crystal growth, structures, charge transfer and transport properties of anthracene-F4TCNQ and tetracene-F4TCNQ charge-transfer compounds. <i>CrystEngComm</i> , 2017 , 19, 618-624	3.3	51
70	Molecular Crystal Engineering: Tuning Organic Semiconductor from p-type to n-type by Adjusting Their Substitutional Symmetry. <i>Advanced Materials</i> , 2017 , 29, 1605053	24	47
69	Atomically flat, large-sized, two-dimensional organic nanocrystals. <i>Small</i> , 2013 , 9, 990-5	11	45
68	Resonant Raman scattering in nanoscale pentacene films. <i>Applied Physics Letters</i> , 2004 , 84, 987-989	3.4	44

67	Fluorescence from rubrene single crystals: Interplay of singlet fission and energy trapping. <i>Physical Review B</i> , 2013 , 87,	3-3	43
66	Solid-state structural and electrical characterization of N-benzyl and N-alkyl naphthalene 1,4,5,8-tetracarboxylic diimides. <i>ChemPhysChem</i> , 2001 , 2, 167-72	3-2	43
65	Ultrathin organic single crystals: fabrication, field-effect transistors and thickness dependence of charge carrier mobility. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4771		41
64	Role of synthesis for oxygen defect incorporation in crystalline rubrene. <i>Applied Physics Letters</i> , 2007 , 91, 212106	3-4	41
63	A new hydrazine-bridged thioantimonate Mn ₂ Sb ₄ S ₈ (N ₂ H ₄) ₂ : Synthesis, structure, optical and magnetic properties. <i>Inorganic Chemistry Communication</i> , 2011 , 14, 884-888	3-1	36
62	Synthesis, crystal structure, and optical properties of a three-dimensional quaternary Hg-In-S-Cl chalcogenide: Hg ₇ In ₆ Cl ₅ . <i>Inorganic Chemistry</i> , 2012 , 51, 4414-6	5-1	35
61	Two Dimensional TiS ₂ as a Promising Insertion Anode for Na-Ion Battery. <i>ChemistrySelect</i> , 2018 , 3, 524-528		34
60	Organic single-crystal complementary inverter. <i>Applied Physics Letters</i> , 2006 , 89, 222111	3-4	33
59	Evidence of low intermolecular coupling in rubrene single crystals by Raman scattering. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 276204	1.8	32
58	From Linear to Angular Isomers: Achieving Tunable Charge Transport in Single-Crystal Indolocarbazoles Through Delicate Synergetic CH/NH···π Interactions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8875-8880	16.4	31
57	Hole Mobility Modulation in Single-Crystal Metal Phthalocyanines by Changing the Metal-π Interactions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10112-10117	16.4	30
56	Impact of C-H···X (X = F, N) and π Interactions on Tuning the Degree of Charge Transfer in F6TNAP-Based Organic Binary Compound Single Crystals. <i>Crystal Growth and Design</i> , 2018 , 18, 1776-1783	3-5	28
55	Rapid synthesis of transition metal dichalcogenide few-layer thin crystals by the microwave-induced-plasma assisted method. <i>Journal of Crystal Growth</i> , 2016 , 450, 140-147	1.6	28
54	Excited-state dynamics in an perylene single crystal: two-photon- and consecutive two-quantum-induced singlet fission. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 838-43	2.8	28
53	Five-dimensional incommensurate structure of the melilite electrolyte [CaNd] ₂ [Ga] ₂ [Ga ₂ O ₇] ₂ . <i>Journal of the American Chemical Society</i> , 2011 , 133, 15200-11	16.4	28
52	Control of Radiative Exciton Recombination by Charge Transfer Induced Surface Dipoles in MoS ₂ and WS ₂ Monolayers. <i>Scientific Reports</i> , 2016 , 6, 24105	4-9	27
51	Optoelectronic properties of atomically thin ReSSe with weak interlayer coupling. <i>Nanoscale</i> , 2016 , 8, 5826-34	7-7	27
50	Ultrafast spectroscopic characterization of 7,7,8,8-tetracyanoquinodimethane (TCNQ) and its radical anion (TCNQ ^{•-}). <i>Chemical Physics Letters</i> , 2014 , 609, 11-14	2-5	27

49	Adjusting tetrathiafulvalene (TTF) functionality through molecular design for organic field-effect transistors. <i>CrystEngComm</i> , 2014 , 16, 5968	3.3	27
48	Two-photon-induced singlet fission in rubrene single crystal. <i>Journal of Chemical Physics</i> , 2013 , 138, 184503	3.3	27
47	Organic Semiconductor Designed for Lamination Transfer between Polymer Films. <i>Chemistry of Materials</i> , 2005 , 17, 5748-5753	9.6	24
46	High energy Li-ion capacitors using two-dimensional TiSe _{0.6} S _{1.4} as insertion host. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19819-19825	13	23
45	A 2:1 cocrystal of 6,13-dihydropentacene and pentacene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2002 , 58, o1229-o1231		23
44	Single photon triggered dianion formation in TCNQ and F4TCNQ crystals. <i>Scientific Reports</i> , 2016 , 6, 28510	10	23
43	In situ formation of new organic ligands to construct two novel self-charge-transfer Pb(II)-based frameworks. <i>CrystEngComm</i> , 2012 , 14, 75-78	3.3	22
42	Organic metal-semiconductor field-effect phototransistors. <i>Applied Physics Letters</i> , 2001 , 78, 3538-3540	3.4	20
41	Trisulfide-Bond Acenes for Organic Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13513-13521	16	19
40	Impurities in zone-refining anthracene crystals. <i>Journal of Crystal Growth</i> , 2013 , 363, 61-68	1.6	19
39	Single-Crystal Field-Effect Transistors Based on Organic Selenium-Containing Semiconductor. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 3712-3714	1.4	19
38	Field-effect transistors made from macroscopic single crystals of tetracene and related semiconductors on polymer dielectrics. <i>Journal of Materials Research</i> , 2004 , 19, 1995-1998	2.5	17
37	Fast organic electronic circuits based on ambipolar pentacene field-effect transistors. <i>Applied Physics Letters</i> , 2001 , 79, 4043-4044	3.4	17
36	Synthesis of SnS ₂ single crystals and its Li-storage performance with LiMn ₂ O ₄ cathode. <i>Applied Materials Today</i> , 2016 , 5, 68-72	6.6	17
35	Crystal chemistry of melilite [CaLa] ₂ [Ga] ₂ [Ga ₂ O ₇] ₂ : a five dimensional solid electrolyte. <i>Inorganic Chemistry</i> , 2012 , 51, 5941-9	5.1	15
34	Second-harmonic generation in quaternary atomically thin layered AgInP ₂ S ₆ crystals. <i>Applied Physics Letters</i> , 2016 , 109, 123103	3.4	14
33	High power Na-ion capacitor with TiS ₂ as insertion host. <i>Scripta Materialia</i> , 2019 , 161, 54-57	5.6	14
32	Photoresponse: Highly Sensitive Detection of Polarized Light Using Anisotropic 2D ReS ₂ (Adv. Funct. Mater. 8/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 1146-1146	15.6	12

31	Charge transport through a single tetracene grain boundary. <i>Applied Physics Letters</i> , 2001 , 78, 3821-3823	3.4	12
30	From Linear to Angular Isomers: Achieving Tunable Charge Transport in Single-Crystal Indolocarbazoles Through Delicate Synergetic CH/NH π - π Interactions. <i>Angewandte Chemie</i> , 2018 , 130, 9013-9018	3.6	11
29	Evidence of Low-Temperature Phase Transition in Tetracene π -Tetracyanoquinodimethane Complex. <i>Crystal Growth and Design</i> , 2018 , 18, 4095-4102	3.5	11
28	Molecular ordering in bis(phenylenyl)bithiophenes. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3427		11
27	Ultrafast Tuning of Various Photochemical Pathways in Perylene π -CNQ Charge-Transfer Crystals. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13894-13901	3.8	10
26	Synthesis and X-Ray Analysis of Isomeric Diazadithiapentacenes. <i>Heterocycles</i> , 2003 , 60, 2045	0.8	9
25	X-ray structure of 14-phenyldiquino[3,4 b;4',3'-e][1,4]thiazine(1). <i>Journal of Chemical Crystallography</i> , 2005 , 35, 731-736	0.5	7
24	Hole Mobility Modulation in Single-Crystal Metal Phthalocyanines by Changing the Metal π - π Interactions. <i>Angewandte Chemie</i> , 2018 , 130, 10269-10274	3.6	7
23	Single-photon upconversion in 6-pentaceneone crystal from bulk to ultrathin flakes. <i>Nanoscale</i> , 2020 , 12, 6227-6232	7.7	6
22	Trisulfide-Bond Acenes for Organic Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 13647-13655	3.6	6
21	Growth of Single-Crystal Organic Semiconductors 2010 , 845-867		6
20	CdS bulk crystal growth by optical floating zone method: strong photoluminescence upconversion and minimum trapped state emission. <i>Optical Engineering</i> , 2016 , 56, 011109	1.1	5
19	Synthesis and Structure of Dipyrrodo-1,4-dithiins. <i>Heterocycles</i> , 2005 , 65, 2619	0.8	5
18	Mobile iodine dopants in organic semiconductors. <i>Physical Review B</i> , 2000 , 61, 10803-10806	3.3	4
17	High Mobilities in Organic Molecular Crystals. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 598, 506		4
16	Revealing ultrafast relaxation dynamics in six-thiophene thin film and single crystal. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 404, 112920	4.7	4
15	Additive manufacturing of micrometric crystallization vessels and single crystals. <i>Scientific Reports</i> , 2016 , 6, 36786	4.9	3
14	Unusual Li-Storage Behaviour of Two-Dimensional ReS ₂ Single Crystals. <i>Batteries and Supercaps</i> , 2018 , 1, 69-74	5.6	3

13	Organic Nanocrystals: Atomically Flat, Large-Sized, Two-Dimensional Organic Nanocrystals (Small 7/2013). <i>Small</i> , 2013 , 9, 962-962	11	3
12	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). <i>Advanced Materials</i> , 2011 , 23, 5074-5074	24	3
11	Tuning the π - π overlap and charge transport in single crystals of an organic semiconductor via solvation and polymorphism. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19855-19863	3.6	3
10	Channels of oxygen diffusion in single crystal rubrene revealed. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 32302-32307	3.6	2
9	Observation of atomic scale compositional and displacive modulations in incommensurate melilite electrolytes. <i>Journal of Solid State Chemistry</i> , 2013 , 203, 291-296	3.3	2
8	Ballistic hole transport in pentacene with a mean free path exceeding 30 μ m. <i>Journal of Applied Physics</i> , 2001 , 90, 3419-3421	2.5	2
7	Field-Effect Devices: Molecular Crystal Engineering: Tuning Organic Semiconductor from p-type to n-type by Adjusting Their Substitutional Symmetry (Adv. Mater. 10/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
6	Single crystal growth of organic semiconductors for field effect applications 2006 , 6336, 633606		1
5	Exploring two dimensional Co _{0.33} In _{2.67} S _{2.29} Se _{1.71} as alloy type negative electrode for Li-ion battery with olivine LiFePO ₄ cathode. <i>Materials Today Energy</i> , 2018 , 9, 19-26	7	1
4	Singlet Fission, Polaron Formation, and Energy Transfer in Indolo[3,2-b]carbazole Thin Films and Single Crystals. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18827-18833	3.8	0
3	Innenstruktur: From Linear to Angular Isomers: Achieving Tunable Charge Transport in Single-Crystal Indolocarbazoles Through Delicate Synergetic CH/NH π - π Interactions (Angew. Chem. 29/2018). <i>Angewandte Chemie</i> , 2018 , 130, 9327-9327	3.6	
2	Exciton and Defect Photoluminescence Signatures in Single Crystal Rubrene. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 965, 1		
1	Diquino[3,4-b;4',3'-e][1,4]dithiine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006 , 62, o1333-o1335		