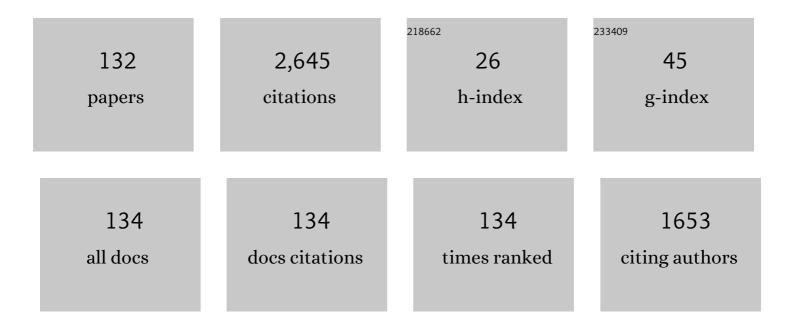
Michael Fiederle

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8633661/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Analysis of Te Inclusion Striations in (Cd,Zn)Te Crystals Grown by Traveling Heater Method. Crystals, 2021, 11, 649.	2.2	6
2	Effective neutron detection using vertical-type BGaN diodes. Journal of Applied Physics, 2021, 130, .	2.5	5
3	Overview of GaAs und CdTe Pixel Detectors Using Medipix Electronics. Crystal Research and Technology, 2020, 55, 2000021.	1.3	15
4	Investigation of CdTe, GaAs, Se and Si as Sensor Materials for Mammography. IEEE Transactions on Medical Imaging, 2020, 39, 3766-3778.	8.9	11
5	Investigations on performance and spectroscopic capabilities of a 3Âmm CdTe Timepix detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 977, 164308.	1.6	10
6	Investigation of growth parameters for ScAlN-barrier HEMT structures by plasma-assisted MBE. Japanese Journal of Applied Physics, 2019, 58, SC1045.	1.5	42
7	Investigation of fragment reconstruction accuracy with in situ few-view flash x-ray high-speed computed tomography (HSCT). Measurement Science and Technology, 2019, 30, 065401.	2.6	2
8	CdTe layer structures for X-ray and gamma-ray detection directly grown on the Medipix readout-chip by MBE. Journal of Crystal Growth, 2017, 477, 114-117.	1.5	7
9	Investigation of MBE grown polycrystalline CdTe films on the Medipix readout chip. Journal of Crystal Growth, 2017, 468, 230-234.	1.5	2
10	Crystal growth of Cd1â^'xZnxTe by the traveling heater method in microgravity on board of Foton-M4 spacecraft. Journal of Crystal Growth, 2017, 457, 262-264.	1.5	6
11	Optimization of the Hgl2 Crystal Preparation for Application as a Radiation Semiconductor Detector. Studies in Engineering and Technology, 2017, 5, 76.	0.2	1
12	Anomalous Lattice Dynamics of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>EuSi</mml:mi></mml:mrow><mml:mrow><!--<br-->Role of Interfaces Unveiled. Physical Review Letters, 2016, 117, 276101.</mml:mrow></mml:msub></mml:mrow></mml:math>	nml 7:18 n>2	</td
13	Analysis of the traveling heater method for the growth of cadmium telluride. Journal of Crystal Growth, 2016, 454, 45-58.	1.5	27
14	Identification of green pigments from fragments of Roman mural paintings of three Roman sites from north of Germania Superior. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	7
15	On the origin and nature of the grating interferometric dark-field contrast obtained with low-brilliance x-ray sources. Physics in Medicine and Biology, 2016, 61, 3427-3442.	3.0	21
16	Synchrotron-based scanning macro-X-ray fluorescence applied to fragments of Roman mural paintings. Microchemical Journal, 2016, 126, 438-445.	4.5	20
17	Thermal Stability Studies of DySi2 Nanowires and Nanoislands by in Situ GISAXS. Journal of Physical Chemistry C, 2016, 120, 7365-7372.	3.1	0
18	Optimization of the Timepix chip to measurement of radon, thoron and their progenies. Applied Radiation and Isotopes, 2016, 107, 220-224.	1.5	3

#	Article	IF	CITATIONS
19	Applications of the Medipix3-CT in combination with iterative reconstruction techniques. Journal of Instrumentation, 2016, 11, C02085-C02085.	1.2	3
20	An investigation into the temporal stability of CdTe-based photon counting detectors during spectral micro-CT acquisitions. Biomedical Physics and Engineering Express, 2015, 1, 025205.	1.2	10
21	Reducing the formation of image artifacts during spectroscopic micro-CT acquisitions. Proceedings of SPIE, 2015, , .	0.8	0
22	Investigation of GaAs:Cr Timepix assemblies under high flux irradiation. Journal of Instrumentation, 2015, 10, C01047-C01047.	1.2	21
23	Performance of a Medipix3RX Spectroscopic Pixel Detector With a High Resistivity Gallium Arsenide Sensor. IEEE Transactions on Medical Imaging, 2015, 34, 707-715.	8.9	52
24	Characterization of a 2x3 Timepix assembly with a 500 \hat{I}_4 m thick silicon sensor. Journal of Instrumentation, 2014, 9, C05037-C05037.	1.2	7
25	Energy weighted x-ray dark-field imaging. Optics Express, 2014, 22, 24507.	3.4	11
26	X-ray Bragg magnifier microscope as a linear shift invariant imaging system: image formation and phase retrieval. Optics Express, 2014, 22, 21508.	3.4	13
27	How spectroscopic x-ray imaging benefits from inter-pixel communication. Physics in Medicine and Biology, 2014, 59, 6195-6213.	3.0	56
28	Pooling optimal combinations of energy thresholds in spectroscopic CT. Proceedings of SPIE, 2014, , .	0.8	0
29	Chromium-compensated GaAs detector material and sensors. Journal of Instrumentation, 2014, 9, C07011-C07011.	1.2	16
30	The LAMBDA photon-counting pixel detector and high-Z sensor development. Journal of Instrumentation, 2014, 9, C12026-C12026.	1.2	28
31	Investigation of the luminescence, crystallographic and spatial resolution properties of LSO:Tb scintillating layers used for X-ray imaging applications. Radiation Measurements, 2014, 62, 28-34.	1.4	13
32	Preface. Radiation Protection Dosimetry, 2014, 160, 247-247.	0.8	0
33	Growth and structure characterization of EuSi 2 films and nanoislands on vicinal Si(001) surface. Journal of Crystal Growth, 2014, 407, 74-77.	1.5	9
34	A fast embedded readout system for large-area Medipix and Timepix systems. Journal of Instrumentation, 2014, 9, C05047-C05047.	1.2	0
35	Count rate linearity and spectral response of the Medipix3RX chip coupled to a 300μm silicon sensor under high flux conditions. Journal of Instrumentation, 2014, 9, C04028-C04028.	1.2	31
36	Charge Summing in Spectroscopic X-Ray Detectors With High-Z Sensors. IEEE Transactions on Nuclear Science, 2013, 60, 4713-4718.	2.0	79

#	Article	IF	CITATIONS
37	High Resolution and High Contrast Imaging With Thin <formula formulatype="inline"><tex Notation="TeX">\${m Srl} _{2}\$</tex </formula> -Scintillator Screens. IEEE Transactions on Nuclear Science, 2013, 60, 1619-1623.	2.0	3
38	High-resolution high-efficiency X-ray imaging system based on the in-line Bragg magnifier and theÂMedipix detector. Journal of Synchrotron Radiation, 2013, 20, 153-159.	2.4	22
39	Potential use of V-channel Ge(220) monochromators in X-ray metrology and imaging. Journal of Applied Crystallography, 2013, 46, 945-952.	4.5	8
40	The Medipix3RX: a high resolution, zero dead-time pixel detector readout chip allowing spectroscopic imaging. Journal of Instrumentation, 2013, 8, C02016-C02016.	1.2	228
41	Editorial Conference Comments by the Editors. IEEE Transactions on Nuclear Science, 2013, 60, 480-481.	2.0	0
42	High Resolution X-Ray Imaging with Thin SrI2-Scintillator Screens. Materials Research Society Symposia Proceedings, 2013, 1576, 1.	0.1	0
43	Dynamic defectoscopy with flat panel and CdTe Timepix X-ray detectors combined with an optical camera. Journal of Instrumentation, 2013, 8, C04009-C04009.	1.2	2
44	Medipix3 CT for material sciences. Journal of Instrumentation, 2013, 8, C01025-C01025.	1.2	16
45	Multimodal imaging with hybrid semiconductor detectors Timepix for an experimental MRI-SPECT system. Journal of Instrumentation, 2013, 8, C01022-C01022.	1.2	5
46	Investigating the feasibility of photonâ€counting Kâ€edge imaging at high xâ€ray fluxes using nonlinearity corrections. Medical Physics, 2013, 40, 101908.	3.0	13
47	High resolution 3D imaging of bump-bonds by means of synchrotron radiation computed laminography. Journal of Instrumentation, 2013, 8, C12029-C12029.	1.2	3
48	Saturation effects of CdTe photon counting detectors under high photon fluxes. Journal of Instrumentation, 2013, 8, C01026-C01026.	1.2	5
49	\${hbox{Srl}}_{2}{:}{hbox{Eu}}^{2+}\$-Scintillators for Spectroscopy and X-Ray Imaging Applications. IEEE Transactions on Nuclear Science, 2012, 59, 2193-2195.	2.0	3
50	Imaging properties of small-pixel spectroscopic x-ray detectors based on cadmium telluride sensors. Physics in Medicine and Biology, 2012, 57, 6743-6759.	3.0	79
51	Synchrotron measurements of the energy response functions of CdTe Medipix2 MXR detectors with pixel pitches of 110 and 165 μm. Journal of Instrumentation, 2012, 7, C12018-C12018.	1.2	2
52	Digital Spectroscopic System Based on Large Volume Stacked Coplanar Grid (Cd,Zn)Te Detectors. IEEE Transactions on Nuclear Science, 2012, 59, 1575-1581.	2.0	9
53	High resolution and high contrast imaging with thin Srl <inf>2</inf> -Scintillator Screens. , 2012, , .		0
54	First principle studies on molecular doping of ZnO thin films by As ₂ O ₃ . Crystal Research and Technology, 2012, 47, 293-298.	1.3	0

Michael Fiederle

#	Article	IF	CITATIONS
55	The Influence of Pixel Pitch and Electrode Pad Size on the Spectroscopic Performance of a Photon Counting Pixel Detector With CdTe Sensor. IEEE Transactions on Nuclear Science, 2011, 58, 17-25.	2.0	20
56	Characterization of the Medipix3 pixel readout chip. Journal of Instrumentation, 2011, 6, C01052-C01052.	1.2	44
57	Flatfield Correction Optimization for Energy Selective X-Ray Imaging With Medipix3. IEEE Transactions on Nuclear Science, 2011, 58, 3182-3189.	2.0	18
58	Bridgman Growth of SrI2. Materials Research Society Symposia Proceedings, 2011, 1341, 1.	0.1	0
59	Development of Srl <inf>2</inf> scintillators for spectroscopy and x-ray imaging applications. , 2011, , .		0
60	Pixel sensitivity variations in a CdTe-Medipix2 detector using poly-energetic x-rays. Journal of Instrumentation, 2011, 6, C01059-C01059.	1.2	34
61	Energy resolution and transport properties of CdTe-Timepix-Assemblies. Journal of Instrumentation, 2011, 6, C01058-C01058.	1.2	23
62	Medipix2 based CdTe microprobe for dental imaging. Journal of Instrumentation, 2011, 6, C12002-C12002.	1.2	3
63	A comparison of various strategies to equalize the lower energy thresholds of a CdTe Medipix2 hexa detector for X-ray imaging applications. Journal of Instrumentation, 2011, 6, C01074-C01074.	1.2	8
64	Investigation of crystallographic and detection properties of CdTe at the ANKA synchrotron light source. Journal of Instrumentation, 2011, 6, P10016-P10016.	1.2	10
65	Timepix background studies for double beta decay experiments. Journal of Instrumentation, 2011, 6, C11030-C11030.	1.2	5
66	On the energy response function of a CdTe Medipix2 Hexa detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, S265-S268.	1.6	15
67	In-line Bragg magnifier based on V-shaped germaniumÂcrystals. Journal of Synchrotron Radiation, 2011, 18, 753-760.	2.4	14
68	Background capabilities of pixel detectors for double beta decay measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S210-S211.	1.6	2
69	Combined Medipix based imaging system with Si and CdTe sensor. , 2011, , .		3
70	X-ray based methods for 3D characterization of charge collection and homogeneity of sensors with the use of Timepix chip. , 2011, , .		1
71	SU-C-211-03: X-Ray Imaging Properties of Two Highly Granular Spectroscopic Pixel Detectors Intended for Small Animal Imaging. Medical Physics, 2011, 38, 3376-3376.	3.0	0
72	Elimination of rotation domains in ZnO thin films on c-plane Al2O3 substrates. Journal of Crystal Growth, 2010, 312, 624-627.	1.5	16

#	Article	IF	CITATIONS
73	Dewetting During the Crystal Growth of (Cd,Zn)Te:In Under Microgravity. IEEE Transactions on Nuclear Science, 2009, 56, 1747-1751.	2.0	7
74	Investigation of Growth Conditions of CdTe Thick Films on Properties and Demands for X-Ray Detector Applications. IEEE Transactions on Nuclear Science, 2009, 56, 1768-1774.	2.0	5
75	Deposition of CdTe films under microgravity: Foton M3 mission. Crystal Research and Technology, 2009, 44, 1059-1066.	1.3	2
76	Piperazinium, Ethylenediammonium or 4,4′â€Bipyridinium Halocuprates(I) by Cu ^{II} /Cu ⁰ Comproportionation. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 1139-1147.	1.2	51
77	Optimization of Medipix-2 Threshold Masks for Spectroscopic X-Ray Imaging. IEEE Transactions on Nuclear Science, 2009, 56, 1795-1799.	2.0	29
78	Growth of thick films CdTe from the vapor phase. Journal of Crystal Growth, 2008, 310, 2062-2066.	1.5	10
79	Distribution of zinc, resistivity, and photosensitivity in a vertical Bridgman grown Cd1â^'xZnxTe ingot. Journal of Crystal Growth, 2008, 310, 3482-3487.	1.5	18
80	Doping, compensation, and photosensitivity of detector grade CdTe. Journal of Materials Research, 2008, 23, 1751-1757.	2.6	8
81	Dependence of the Sn ^{0/2+} charge state on the Fermi level in semi-insulating CdTe. Journal of Materials Research, 2007, 22, 3249-3254.	2.6	23
82	Deep level defects in CdTe materials studied by thermoelectric effect spectroscopy and photo-induced current transient spectroscopy. Semiconductor Science and Technology, 2007, 22, 537-542.	2.0	41
83	Growth of Thick Films CdTe From the Vapor Phase. IEEE Transactions on Nuclear Science, 2007, 54, 773-776.	2.0	3
84	Crystal Growth and Characterization of Detector Grade (Cd,Zn)Te Crystals. IEEE Transactions on Nuclear Science, 2007, 54, 769-772.	2.0	17
85	Medipix2: Processing and measurements of GaAs pixel detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 576, 23-26.	1.6	32
86	Performance characteristics of Frisch-ring CdZnTe detectors. IEEE Transactions on Nuclear Science, 2006, 53, 607-614.	2.0	48
87	Molecular beam epitaxy and doping of AlN at high growth temperatures. Journal Physics D: Applied Physics, 2006, 39, 4616-4620.	2.8	14
88	Comparative study of vertical gradient freeze grown CdTe with variable Sn concentration. Journal of Materials Research, 2006, 21, 1025-1032.	2.6	11
89	Deep level defect luminescence in cadmium selenide nano-crystals films. Journal of Crystal Growth, 2005, 280, 502-508.	1.5	45
90	Excitation Dependence of Steady-State Photoluminescence in CdSe Nanocrystal Films. Journal of Physical Chemistry B, 2005, 109, 15349-15354.	2.6	14

Michael Fiederle

#	Article	IF	CITATIONS
91	Semi-insulating cadmium telluride at low impurity concentrations. Journal of Materials Research, 2004, 19, 405-408.	2.6	8
92	Dewetted growth and characterisation of high-resistivity CdTe. Journal of Crystal Growth, 2004, 267, 429-435.	1.5	35
93	Experimental study of non-stoichiometry in Cd1â^'xZnxTe1±δ. Journal of Electronic Materials, 2004, 33, 719-723.	2.2	8
94	Dewetted growth of CdTe in microgravity (STS-95). Crystal Research and Technology, 2004, 39, 481-490.	1.3	22
95	The use of neutron diffraction in the quantitative characterization of dopant-dependent dynamical properties of semiconductors. Physica B: Condensed Matter, 2004, 350, E549-E552.	2.7	Ο
96	Combined photoluminescence study of substrate defects in Hg1â^'xCdxI2/CdTe heterostructures. Journal of Crystal Growth, 2004, 262, 191-195.	1.5	7
97	Vapor pressure scanning of non-stoichiometry in Cd0.95Zn0.05Te1±Î′. Journal of Crystal Growth, 2004, 270, 69-76.	1.5	11
98	Development of flip-chip bonding technology for (Cd,Zn)Te. IEEE Transactions on Nuclear Science, 2004, 51, 1799-1802.	2.0	13
99	Comparison of undoped and doped high resistivity CdTe and (Cd,Zn)Te detector Crystals. IEEE Transactions on Nuclear Science, 2004, 51, 1864-1868.	2.0	53
100	Vapour pressure investigation of CdZnTe. Journal of Alloys and Compounds, 2004, 371, 118-121.	5.5	27
101	Defect structure of Sn-doped CdTe. Journal of Electronic Materials, 2003, 32, 772-777.	2.2	24
102	Characterization of CdTe crystals grown by the Vertical Bridgman method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 509, 70-75.	1.6	15
103	Characterization of CdTe:Zn:V crystals grown under microgravity conditions. Journal of Materials Research, 2002, 17, 3037-3041.	2.6	4
104	Identification of Cl and Na Impurities in Inclusions of a Vapor-grown CdTe Doped with Zn and Cl. Journal of Materials Research, 2002, 17, 1069-1073.	2.6	7
105	Correlation of resistivity with zinc content in a vapor grown (Cd,Zn)Te:Se. Applied Physics Letters, 2002, 81, 5153-5155.	3.3	11
106	Thermodynamic Properties of ZnTe in the Temperature Range 15-925 K. Physica Status Solidi (B): Basic Research, 2002, 229, 133-135.	1.5	18
107	P-T-X Phase Equilibrium in the Zn-Te System. Physica Status Solidi (B): Basic Research, 2002, 229, 137-140.	1.5	16
108	CdZnTe:Cl Crystals for X-Ray Computer Tomography Detectors. Physica Status Solidi (B): Basic Research, 2002, 229, 1073-1076.	1.5	6

#	Article	IF	CITATIONS
109	High-temperature heat capacity and thermodynamic functions of zinc telluride. Thermochimica Acta, 2002, 381, 133-138.	2.7	12
110	Defect structure of Ge-doped CdTe. Journal of Crystal Growth, 2002, 243, 77-86.	1.5	50
111	Low-temperature heat capacity of ZnTe. Journal of Chemical Thermodynamics, 2002, 34, 2041-2047.	2.0	15
112	Mass spectrometric study of the CdTe–ZnTe system. Journal of Crystal Growth, 2002, 240, 73-79.	1.5	25
113	High-temperature defect structure of Cd- and Te-rich CdTe. IEEE Transactions on Nuclear Science, 2002, 49, 1270-1274.	2.0	52
114	P–T–X phase equilibrium studies in Zn–Te for crystal growth by the Markov method. Solid State Sciences, 2001, 3, 1241-1244.	0.7	15
115	Compensation in semi-intrinsic CdTe-based materials. , 2001, 4355, 238.		5
116	<title>Pure and deep-level doped semi-insulating CdTe</title> ., 2001, , .		2
117	Comparison of cadmium zinc telluride crystals grown by horizontal and vertical Bridgman and from the vapor phase. Journal of Crystal Growth, 2001, 231, 235-241.	1.5	24
118	State of the art of (Cd,Zn)Te as gamma detector. Journal of Crystal Growth, 1999, 197, 635-640.	1.5	86
119	Modified compensation model of CdTe. Journal of Applied Physics, 1998, 84, 6689-6692.	2.5	194
120	<title>Vapor crystal growth of CdTe under terrestrial and microgravity conditions</title> . , 1997, 3123, 2.		3
121	Compensation Mechanism in Vanadium and Gallium Doped CdTe and (Cd,Zn)Te. Crystal Research and Technology, 1997, 32, 1103-1113.	1.3	13
122	Growth of twin-free CdTe single crystals in a semi-closed vapour phase system. Journal of Crystal Growth, 1997, 174, 696-707.	1.5	25
123	Characterization of CdTe:Cl crystals grown under microgravity conditions by time dependent charge measurements (TDCM). Journal of Crystal Growth, 1996, 166, 245-250.	1.5	14
124	Radiation detector properties of CdTe0.9Se0.1:Cl crystals grown under microgravity in a rotating magnetic field. Journal of Crystal Growth, 1996, 166, 256-260.	1.5	28
125	Characterization of Ti and V doped CdTe by time dependent charge measurement (TDCM) and photoinduced current transient spectroscopy (PICTS). Optical Materials, 1995, 4, 214-218.	3.6	13
126	Investigation of CdTe:Cl grown from the vapour phase under microgravity conditions with time dependent charge measurements and photoinduced current transient spectroscopy. Journal of Crystal Growth, 1995, 146, 98-103.	1.5	19

#	Article	IF	CITATIONS
127	Closed tube vapour growth of CdTe:V and CdTe:Ti and its characterization. Journal of Crystal Growth, 1995, 146, 92-97.	1.5	11
128	Studies of the compensation mechanism in CdTe grown from the vapour phase. Journal of Crystal Growth, 1995, 146, 142-147.	1.5	30
129	Characterization of cadmium telluride crystals grown by different techniques from the vapour phase. Journal of Crystal Growth, 1995, 146, 125-129.	1.5	16
130	High resolution method for the analysis of admittance spectroscopy data. Journal of Applied Physics, 1995, 77, 3851-3857.	2.5	12
131	CdTe and CdTe0.9Se0.1 crystals grown by the travelling heater method using a rotating magnetic field. Journal of Crystal Growth, 1994, 138, 161-167.	1.5	67
132	Comparison of CdTe, Cd0.9Zn0.1Te and CdTe0.9Se0.1 crystals: application for γ- and X-ray detectors. Journal of Crystal Growth, 1994, 138, 529-533.	1.5	91