

Anton S Tremsin

List of Publications by Year in descending order

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259
docs citations

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times ranked

3352
citing authors

#	ARTICLE	IF	CITATIONS
1	Site specific control of crystallographic grain orientation through electron beam additive manufacturing. <i>Materials Science and Technology</i> , 2015, 31, 931-938.	0.8	424
2	Far ultraviolet imaging from the IMAGE spacecraft. 2. Wideband FUV imaging. <i>Space Science Reviews</i> , 2000, 91, 271-285.	3.7	151
3	Efficiency optimization of microchannel plate (MCP) neutron imaging detectors. I. Square channels with 10B doping. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 539, 278-311.	0.7	104
4	Development of new photon-counting detectors for single-molecule fluorescence microscopy. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120035.	1.8	100
5	On the possibility to image thermal and cold neutron with sub-15 μm spatial resolution. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 592, 374-384.	0.7	80
6	Detection efficiency, spatial and timing resolution of thermal and cold neutron counting MCP detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 604, 140-143.	0.7	76
7	High-Resolution Strain Mapping Through Time-of-Flight Neutron Transmission Diffraction with a Microchannel Plate Neutron Counting Detector. <i>Strain</i> , 2012, 48, 296-305.	1.4	73
8	Optimization of high count rate event counting detector with Microchannel Plates and quad Timepix readout. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 787, 20-25.	0.7	73
9	Development of GaN photocathodes for UV detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 567, 89-92.	0.7	69
10	Improved efficiency of high resolution thermal and cold neutron imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 628, 415-418.	0.7	65
11	High Resolution Photon Counting With MCP-Timepix Quad Parallel Readout Operating at $\sim 1\text{--}10\text{ kHz}$ Frame Rates. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 578-585.	1.2	65
12	Rapid imbibition of water in fractures within unsaturated sedimentary rock. <i>Advances in Water Resources</i> , 2015, 77, 82-89.	1.7	59
13	Texture imaging of zirconium based components by total neutron cross-section experiments. <i>Journal of Nuclear Materials</i> , 2012, 425, 218-227.	1.3	57
14	Spatial distribution of electron cloud footprints from microchannel plates: Measurements and modeling. <i>Review of Scientific Instruments</i> , 1999, 70, 3282-3288.	0.6	51
15	<title>High-resolution cross delay line detectors for the GALEX mission</title>. , 1999, 3765, 429.		51
16	Time-of-Flight Neutron Imaging on IMAT@ISIS: A New User Facility for Materials Science. <i>Journal of Imaging</i> , 2018, 4, 47.	1.7	50
17	High spatial resolution neutron sensing microchannel plate detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 576, 178-182.	0.7	49
18	Neutron radiography with sub-15 μm resolution through event centroiding. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 688, 32-40.	0.7	49

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19	Cross-strip readouts for photon counting detectors with high spatial and temporal resolution. IEEE Transactions on Nuclear Science, 2004, 51, 1707-1711.	1.2	48
20	Unique capabilities and applications of Microchannel Plate (MCP) detectors with Medipix/Timepix readout. Radiation Measurements, 2020, 130, 106228.	0.7	47
21	Cross strip imaging anodes for microchannel plate detectors. IEEE Transactions on Nuclear Science, 2001, 48, 430-434.	1.2	46
22	Non-destructive studies of fuel pellets by neutron resonance absorption radiography and thermal neutron radiography. Journal of Nuclear Materials, 2013, 440, 633-646.	1.3	46
23	The CG-1D Neutron Imaging Beamline at the Oak Ridge National Laboratory High Flux Isotope Reactor. Physics Procedia, 2015, 69, 104-108.	1.2	46
24	Relation between Vickers Hardness and Bragg-Edge Broadening in Quenched Steel Rods Observed by Pulsed Neutron Transmission Imaging. Materials Transactions, 2015, 56, 1147-1152.	0.4	44
25	High-resolution neutron microtomography with noiseless neutron counting detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 400-403.	0.7	42
26	Microchannel plate operation at high count rates: new results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 379, 139-151.	0.7	39
27	Nano-engineered ultra-high-gain microchannel plates. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 607, 81-84.	0.7	38
28	Phasor imaging with a widefield photon-counting detector. Journal of Biomedical Optics, 2012, 17, 016008.	1.4	38
29	High resolution cross strip anodes for photon counting detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 504, 177-181.	0.7	37
30	High-resolution UV, alpha and neutron imaging with the Timepix CMOS readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 151-154.	0.7	36
31	Gallium nitride photocathode development for imaging detectors. Proceedings of SPIE, 2008, , .	0.8	36
32	Single-Quantum Dot Imaging with a Photon Counting Camera. Current Pharmaceutical Biotechnology, 2009, 10, 543-557.	0.9	36
33	Status of the Neutron Imaging and Diffraction Instrument IMAT. Physics Procedia, 2015, 69, 71-78.	1.2	36
34	Time-of-Flight Three Dimensional Neutron Diffraction in Transmission Mode for Mapping Crystal Grain Structures. Scientific Reports, 2017, 7, 9561.	1.6	36
35	High resolution Bragg edge transmission spectroscopy at pulsed neutron sources: Proof of principle experiments with a neutron counting MCP detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S235-S238.	0.7	35
36	Non-Destructive Study of Bulk Crystallinity and Elemental Composition of Natural Gold Single Crystal Samples by Energy-Resolved Neutron Imaging. Scientific Reports, 2017, 7, 40759.	1.6	35

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37	Neutron resonance transmission spectroscopy with high spatial and energy resolution at the J-PARC pulsed neutron source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 746, 47-58.	0.7	34
38	Optimization of Timepix count rate capabilities for the applications with a periodic input signal. Journal of Instrumentation, 2014, 9, C05026-C05026.	0.5	34
39	Non-destructive Examination of Loads in Regular and Self-locking Spirallock® Threads through Energy-resolved Neutron Imaging. Strain, 2016, 52, 548-558.	1.4	34
40	Investigation of residual stress distribution and texture evolution in AA7050 stationary shoulder friction stir welded joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 531-538.	2.6	33
41	High-resolution neutron radiography with microchannel plates: Proof-of-principle experiments at PSI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 605, 103-106.	0.7	32
42	Transmission Bragg edge spectroscopy measurements at ORNL Spallation Neutron Source. Journal of Physics: Conference Series, 2010, 251, 012069.	0.3	32
43	High resolution neutron counting detectors with microchannel plates and their applications in neutron radiography, diffraction and resonance absorption imaging. Neutron News, 2012, 23, 35-38.	0.1	32
44	High resolution neutron imaging capabilities at BOA beamline at Paul Scherrer Institut. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 486-493.	0.7	32
45	Materials analysis opportunities on the new neutron imaging facility IMAT@ISIS. Journal of Instrumentation, 2016, 11, C03014-C03014.	0.5	31
46	Characterization of Crystallographic Structures Using Bragg-Edge Neutron Imaging at the Spallation Neutron Source. Journal of Imaging, 2017, 3, 65.	1.7	31
47	Neutron Imaging at LANSCE – From Cold to Ultrafast. Journal of Imaging, 2018, 4, 45.	1.7	31
48	Quantitative Neutron Dark-field Imaging through Spin-Echo Interferometry. Scientific Reports, 2015, 5, 16576.	1.6	30
49	Three Dimensional Polarimetric Neutron Tomography of Magnetic Fields. Scientific Reports, 2018, 8, 2214.	1.6	30
50	The Microsphere Plate: a new type of electron multiplier. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 368, 719-730.	0.7	29
51	Bragg-edge neutron transmission strain tomography for in situ loadings. Nuclear Instruments & Methods in Physics Research B, 2016, 383, 52-58.	0.6	29
52	Determination of very low concentrations of hydrogen in zirconium alloys by neutron imaging. Journal of Nuclear Materials, 2018, 503, 98-109.	1.3	29
53	New perspectives for neutron imaging through advanced event-mode data acquisition. Scientific Reports, 2021, 11, 21360.	1.6	29
54	Atomic layer deposited borosilicate glass microchannel plates for large area event counting detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 168-171.	0.7	28

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55	Time-of-flight neutron imaging for spatially resolved strain investigations based on Bragg edge transmission at a reactor source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 680, 27-34.	0.7	28
56	Capturing interfacial photoelectrochemical dynamics with picosecond time-resolved X-ray photoelectron spectroscopy. Faraday Discussions, 2014, 171, 219-241.	1.6	28
57	Optically sensitive Medipix2 detector for adaptive optics wavefront sensing. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 546, 263-269.	0.7	27
58	Microchannel plate cross-strip detectors with high spatial and temporal resolution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 118-122.	0.7	26
59	High Resolution Neutron Resonance Absorption Imaging at a Pulsed Neutron Beamline. IEEE Transactions on Nuclear Science, 2012, 59, 3272-3277.	1.2	26
60	Neutron Strain Tomography using the Radon Transform. Materials Today: Proceedings, 2015, 2, S414-S423.	0.9	26
61	Overview of spatial and timing resolution of event counting detectors with Microchannel Plates. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 949, 162768.	0.7	26
62	Energy-Resolving Neutron Transmission Radiography at the ISIS Pulsed Spallation Source With a High-Resolution Neutron Counting Detector. IEEE Transactions on Nuclear Science, 2009, 56, 2931-2937.	1.2	25
63	High Spatial and Temporal Resolution Neutron Imaging With Microchannel Plate Detectors. IEEE Transactions on Nuclear Science, 2009, 56, 1203-1209.	1.2	25
64	Microchannel Plate Imaging Detectors for High Dynamic Range Applications. IEEE Transactions on Nuclear Science, 2017, 64, 1774-1780.	1.2	25
65	Neutron imaging "Detector options in progress. Journal of Instrumentation, 2011, 6, C01050-C01050.	0.5	24
66	TOF-SEMSANS"Time-of-flight spin-echo modulated small-angle neutron scattering. Journal of Applied Physics, 2012, 112, .	1.1	24
67	Microstructure and water absorption of ancient concrete from Pompeii: An integrated synchrotron microtomography and neutron radiography characterization. Cement and Concrete Research, 2021, 139, 106282.	4.6	24
68	Heat enhancement of radiation resistivity of evaporated CsI, KI and KBr photocathodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 442, 337-341.	0.7	23
69	Centroiding algorithms and spatial resolution of photon counting detectors with cross-strip anodes. , 2003, , .		23
70	The efficiency of thermal neutron detection and collimation with microchannel plates of square and circular geometry. IEEE Transactions on Nuclear Science, 2005, 52, 1739-1744.	1.2	23
71	Performance characteristics of atomic layer functionalized microchannel plates. Proceedings of SPIE, 2013, , .	0.8	23
72	Spatially resolved remote measurement of temperature by neutron resonance absorption. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 803, 15-23.	0.7	23

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73	Investigation of dissimilar metal welds by energy-resolved neutron imaging. Journal of Applied Crystallography, 2016, 49, 1130-1140.	1.9	23
74	Real-time Crystal Growth Visualization and Quantification by Energy-Resolved Neutron Imaging. Scientific Reports, 2017, 7, 46275.	1.6	22
75	Structural transformation of CsI thin film photocathodes under exposure to air and UV irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 447, 614-618.	0.7	21
76	UV radiation resistance and solar blindness of CsI and KBr photocathodes. IEEE Transactions on Nuclear Science, 2001, 48, 421-425.	1.2	21
77	Investigation of microstructure in additive manufactured Inconel 625 by spatially resolved neutron transmission spectroscopy. Science and Technology of Advanced Materials, 2016, 17, 324-336.	2.8	21
78	<i>In situ</i> time-of-flight neutron imaging of NiO-YSZ anode support reduction under influence of stress. Journal of Applied Crystallography, 2016, 49, 1674-1681.	1.9	21
79	Mapping residual strain induced by cold working and by laser shock peening using neutron transmission spectroscopy. Materials and Design, 2018, 143, 56-64.	3.3	21
80	Next generation microchannel plate detector technologies for UV astronomy. , 2004, , .		20
81	The theory of compact and efficient circular-pore MCP neutron collimators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 556, 556-564.	0.7	20
82	Large Area Microchannel Plate Imaging Event Counting Detectors With Sub-Nanosecond Timing. IEEE Transactions on Nuclear Science, 2013, 60, 923-931.	1.2	20
83	Distinction between super-cooled water and ice with high duty cycle time-of-flight neutron imaging. Review of Scientific Instruments, 2019, 90, .	0.6	20
84	Characterization and application of Bragg-edge transmission imaging for strain measurement and crystallographic analysis on the IMAT beamline. Journal of Applied Crystallography, 2019, 52, 351-368.	1.9	20
85	<i>Dependence of quantum efficiency of alkali halide photocathodes on the radiation incidence angle</i> . , 1999, , .		19
86	Advanced MCP sensors for UV/visible astronomy and biology. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 510, 185-189.	0.7	19
87	Very compact high performance microchannel plate thermal neutron collimators. IEEE Transactions on Nuclear Science, 2004, 51, 1020-1024.	1.2	19
88	Optical MCP image tube with a quad Timepix readout: initial performance characterization. Journal of Instrumentation, 2014, 9, C05055-C05055.	0.5	19
89	In-Situ Observation of Phase Separation During Growth of Cs ₂ LiLaBr ₆ :Ce Crystals Using Energy-Resolved Neutron Imaging. Crystal Growth and Design, 2017, 17, 6372-6381.	1.4	19
90	Non-contact measurement of partial gas pressure and distribution of elemental composition using energy-resolved neutron imaging. AIP Advances, 2017, 7, .	0.6	19

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91	Bragg-edge elastic strain tomography for <i>in situ</i> systems from energy-resolved neutron transmission imaging. <i>Physical Review Materials</i> , 2017, 1, .	0.9	19
92	Imaging of dynamic magnetic fields with spin-polarized neutron beams. <i>New Journal of Physics</i> , 2015, 17, 043047.	1.2	18
93	Effect of stress on NiO reduction in solid oxide fuel cells: a new application of energy-resolved neutron imaging. <i>Journal of Applied Crystallography</i> , 2015, 48, 401-408.	1.9	18
94	Dynamic volume magnetic domain wall imaging in grain oriented electrical steel at power frequencies with accumulative high-frame rate neutron dark-field imaging. <i>Scientific Reports</i> , 2018, 8, 15754.	1.6	18
95	Advances in wide-bandgap semiconductor based photocathode devices for low light level applications. , 2003, 5164, 144.		17
96	The quantum efficiency and stability of UV and soft x-ray photocathodes. , 2005, , .		17
97	UV photoemission efficiency of polycrystalline CVD diamond films. <i>Diamond and Related Materials</i> , 2005, 14, 48-53.	1.8	17
98	High spatial and temporal resolution photon/electron counting detector for synchrotron radiation research. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 580, 853-857.	0.7	17
99	High-resolution detection system for time-of-flight electron spectrometry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 582, 172-174.	0.7	17
100	The current and future capabilities of MCP based UV detectors. <i>Astrophysics and Space Science</i> , 2009, 320, 247-250.	0.5	17
101	Novel large format sealed tube microchannel plate detectors for Cherenkov timing and imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 639, 165-168.	0.7	17
102	<i>In situ</i> diagnostics of the crystal-growth process through neutron imaging: application to scintillators. <i>Journal of Applied Crystallography</i> , 2016, 49, 743-755.	1.9	16
103	Towards efficient time-resolved X-ray absorption studies of electron dynamics at photocatalytic interfaces. <i>Faraday Discussions</i> , 2016, 194, 659-682.	1.6	16
104	Tomographic Reconstruction of Two-Dimensional Residual Strain Fields from Bragg-Edge Neutron Imaging. <i>Physical Review Applied</i> , 2018, 10, .	1.5	16
105	Switchable X-Ray Orbital Angular Momentum from an Artificial Spin Ice. <i>Physical Review Letters</i> , 2021, 126, 117201.	2.9	16
106	Electronic and optical moiré interference with microchannel plates: artifacts and benefits. <i>Applied Optics</i> , 1999, 38, 2240.	2.1	15
107	GaN photocathodes for UV detection and imaging. , 2003, 5164, 134.		15
108	Characterizations of microchannel plate quantum efficiency. , 2005, 5898, 113.		15

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109	High performance microchannel plate imaging photon counters for spaceborne sensing. , 2006, 6220, 53.		15
110	Single photon imaging at ultra-high resolution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 125-128.	0.7	15
111	Optically sensitive MCP image tube with a Medipix2 ASIC readout. Proceedings of SPIE, 2008, , .	0.8	15
112	Phasor-based single-molecule fluorescence lifetime imaging using a wide-field photon-counting detector. , 2009, 7185, .		15
113	Centroiding algorithms for high speed crossed-strip readout of microchannel plate detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S255-S258.	0.7	15
114	Design and Characterisation of Metallic Glassy Alloys of High Neutron Shielding Capability. Scientific Reports, 2016, 6, 36998.	1.6	15
115	Ion-ion coincidence imaging at high event rate using an in-vacuum pixel detector. Journal of Chemical Physics, 2017, 147, 013919.	1.2	15
116	<title>Polycrystalline diamond films as prospective UV photocathodes</title>. , 2000, 4139, 16.		14
117	Advances in microchannel plates and photocathodes for ultraviolet photon counting detectors. Proceedings of SPIE, 2011, , .	0.8	14
118	Scatter rejection in quantitative thermal and cold neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 145-148.	0.7	14
119	New photon-counting detectors for single-molecule fluorescence spectroscopy and imaging. , 2011, 8033, 803316.		14
120	Application of atomic layer deposited microchannel plates to imaging photodetectors with high time resolution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 787, 110-113.	0.7	14
121	X-ray-induced radiation damage in CsI, Gadox, Y2O2S and Y2O3 thin films. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 459, 543-551.	0.7	13
122	Thermal dependence of electrical characteristics of micromachined silica microchannel plates. Review of Scientific Instruments, 2004, 75, 1068-1072.	0.6	13
123	Noiseless imaging detector for adaptive optics with kHz frame rates. , 2004, , .		13
124	High Resolution Photon Counting Detection System for Advanced Inelastic X-Ray Scattering Studies. IEEE Transactions on Nuclear Science, 2007, 54, 706-709.	1.2	13
125	High Speed Multichannel Charge Sensitive Data Acquisition System With Self-Triggered Event Timing. IEEE Transactions on Nuclear Science, 2009, 56, 1148-1152.	1.2	13
126	High Resolution Stroboscopic Neutron Radiography at the FRM-II ANTARES Facility. IEEE Transactions on Nuclear Science, 2010, 57, 2955-2962.	1.2	13

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127	Plastic microchannel plates with nano-engineered films. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 633, S59-S61.	0.7	13
128	20 cm Sealed Tube Photon Counting Detectors with Novel Microchannel Plates for Imaging and Timing Applications. Physics Procedia, 2012, 37, 803-810.	1.2	13
129	Flexible sample environment for high resolution neutron imaging at high temperatures in controlled atmosphere. Review of Scientific Instruments, 2015, 86, 125109.	0.6	13
130	Silicon microchannel plates: initial results for photon counting detectors. , 2000, 4140, 188.		12
131	<title>Stability of quantum efficiency and visible light rejection of alkali halide photocathodes</title>. , 2000, 4013, 411.		12
132	Optical properties and quantum efficiency of thin-film alkali halides in the far ultraviolet. Applied Optics, 2002, 41, 2532.	2.1	12
133	<title>Progress on the development of silicon microchannel plates</title>. , 2002, 4497, 139.		12
134	Quantum efficiency and stability of alkali halide UV photocathodes in the presence of electric field. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 504, 4-8.	0.7	12
135	The latest developments of high-gain Si microchannel plates. , 2003, , .		12
136	Microchannel plates: recent advances in performance. Proceedings of SPIE, 2007, , .	0.8	12
137	Gallium nitride photocathodes for imaging photon counters. Proceedings of SPIE, 2010, , .	0.8	12
138	Opaque gallium nitride photocathodes in UV imaging detectors with microchannel plates. Proceedings of SPIE, 2013, , .	0.8	12
139	High-Resolution Neutron Counting Sensor in Strain Mapping Through Transmission Bragg Edge Diffraction. IEEE Sensors Journal, 2011, 11, 3433-3436.	2.4	11
140	Wavelength resolved neutron transmission analysis to identify single crystal particles in historical metallurgy. European Physical Journal Plus, 2014, 129, 1.	1.2	11
141	Energy-resolved neutron tomography of an unconventional cultured pearl at a pulsed spallation source using a microchannel plate camera. Microchemical Journal, 2018, 137, 473-479.	2.3	11
142	Natural solid-state ion conduction induces metal isotope fractionation. Geology, 2019, 47, 617-621.	2.0	11
143	Spectral neutron tomography. Materials Today Advances, 2021, 9, 100132.	2.5	11
144	<title>Charge cloud asymmetry in detectors with biased MCPs</title>. , 2002, , .		10

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145	Noiseless kilohertz-frame-rate imaging detector based on microchannel plates readout with the Medipix2 CMOS pixel chip. , 2005, , .		10
146	Complete momentum and energy resolved TOF electron spectrometer for time-resolved photoemission spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 582, 168-171.	0.7	10
147	A New Concept of Thermal Neutron Counting With Sub-Microsecond Timing Resolution. IEEE Transactions on Nuclear Science, 2008, 55, 1664-1669.	1.2	10
148	Development of cross strip MCP detectors for UV and optical instruments. Proceedings of SPIE, 2009, , .	0.8	10
149	Large-format high-spatial resolution cross-strip readout MCP detectors for UV astronomy. Proceedings of SPIE, 2010, , .	0.8	10
150	MCP detector read out with a bare quad Timepix at kilohertz frame rates. Journal of Instrumentation, 2011, 6, C01049-C01049.	0.5	10
151	Energy resolved neutron radiography at LANSCE pulsed neutron facility. Neutron News, 2013, 24, 28-32.	0.1	10
152	Time-resolved neutron imaging at ANTARES cold neutron beamline. Journal of Instrumentation, 2015, 10, P07008-P07008.	0.5	10
153	Tomographic reconstruction of triaxial strain fields from Bragg-edge neutron imaging. Physical Review Materials, 2019, 3, .	0.9	10
154	Microchannel plate imaging photon counters for ultraviolet through NIR detection with high time resolution. Proceedings of SPIE, 2011, 8033, 1350904.	0.8	9
155	Cross-sectional imaging of quenched region in a steel rod using energy-resolved neutron tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 944, 162532.	0.7	9
156	Energy-resolved neutron imaging options at a small angle neutron scattering instrument at the Australian Center for Neutron Scattering. Review of Scientific Instruments, 2019, 90, 035114.	0.6	9
157	Three dimensional polarimetric neutron tomographyâ€”beyond the phase-wrapping limit. Journal Physics D: Applied Physics, 2019, 52, 205001.	1.3	9
158	Frame overlap Bragg edge imaging. Scientific Reports, 2020, 10, 14867.	1.6	9
159	<title>Microsphere plate electron multiplier: measurements and modeling</title>. , 1995, 2518, 384.		8
160	A noiseless kilohertz frame rate imaging detector based on microchannel plates read out with the Medipix2 CMOS pixel chip. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 567, 110-113.	0.7	8
161	Development of large area photon counting detectors optimized for Cherenkov light imaging with high temporal and sub-mm spatial resolution. , 2011, , .		8
162	Neutron Resonance Imaging of a Au-In-Cd Alloy for the JSNS. Physics Procedia, 2013, 43, 337-342.	1.2	8

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163	Quantification of Cement Hydration through Neutron Radiography with Scatter Rejection. IEEE Transactions on Nuclear Science, 2015, 62, 1288-1294.	1.2	8
164	Phase Transition Mapping by Means of Neutron Imaging in SOFC Anode Supports during Reduction under Applied Stress. ECS Transactions, 2015, 68, 1103-1114.	0.3	8
165	Characterization of a neutron sensitive MCP/Timepix detector for quantitative image analysis at a pulsed neutron source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 861, 55-63.	0.7	8
166	Single-photon imaging detector with $\sim(10)$ ps timing and sub-10 μm position resolutions. Journal of Instrumentation, 2018, 13, C12005-C12005.	0.5	8
167	Digital neutron and gamma-ray radiography in high radiation environments with an MCP/Timepix detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 902, 110-116.	0.7	8
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