

# Thierry Auger

## List of Publications by Year in descending order

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77  
papers

3,790  
citations

136950

32  
h-index

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g-index

77  
all docs

77  
docs citations

77  
times ranked

1855  
citing authors

#	ARTICLE	IF	CITATIONS
1	The CEBAF large acceptance spectrometer (CLAS). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 503, 513-553.	1.6	436
2	Observation of Exclusive Deeply Virtual Compton Scattering in Polarized Electron Beam Asymmetry Measurements. Physical Review Letters, 2001, 87, .	7.8	243
3	Observation of an Exotic Baryon with $S=+1$ in Photoproduction from the Proton. Physical Review Letters, 2004, 92, 032001.	7.8	234
4	$Q^2$ Dependence of Quadrupole Strength in the $\hat{1}^3\text{p}^{\uparrow}\hat{1}^{\uparrow}+(1232)\hat{1}^{\uparrow}\hat{1}^{\uparrow}\rightarrow 0$ Transition. Physical Review Letters, 2002, 88, 122001.	7.8	191
5	The bremsstrahlung tagged photon beam in Hall B at JLab. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 440, 263-284.	1.6	168
6	Hyperon photoproduction in the nucleon resonance region. Physical Review C, 2004, 69, .	2.9	159
7	Observation of nuclear scaling in the $A(e,e^{\prime 2})$ reaction at $x_B > 1$ . Physical Review C, 2003, 68, .	2.9	132
8	$\hat{1}$ -Photoproduction on the Proton for Photon Energies from 0.75 to 1.95 GeV. Physical Review Letters, 2002, 89, 222002.	7.8	111
9	Environmental degradation of structural materials in liquid lead- and lead-bismuth eutectic-cooled reactors. Progress in Materials Science, 2022, 126, 100920.	32.8	111
10	Measurement of beam-spin asymmetries for $\hat{1}^{\uparrow}$ electroproduction above the baryon resonance region. Physical Review D, 2004, 69, .	4.7	110
11	On the origin of the high tensile strength and ductility of additively manufactured 316L stainless steel: Multiscale investigation. Journal of Materials Science and Technology, 2020, 41, 209-218.	10.7	107
12	Measurement of $\hat{1}^{\uparrow}$ and Baryon Resonance Analysis. Physical Review Letters, 2003, 91, 022002.	7.8	105
13	Influence of liquid lead and lead-bismuth eutectic on tensile, fatigue and creep properties of ferritic/martensitic and austenitic steels for transmutation systems. Journal of Nuclear Materials, 2011, 415, 284-292.	2.7	103
14	The $\hat{1}^{\uparrow}$ Reaction at and above the $S_{11}(1535)$ Baryon Resonance. Physical Review Letters, 2001, 86, 1702-1706.	7.8	102
15	Photoproduction of $\hat{1}^{\uparrow}(1020)$ Mesons on the Proton at Large Momentum Transfer. Physical Review Letters, 2000, 85, 4682-4686.	7.8	67
16	Measurement of the Proton Spin Structure Function $g_1(x, Q^2)$ for $Q^2$ from 0.15 to 1.6 GeV <sup>2</sup> with CLAS. Physical Review Letters, 2003, 91, 222002.	7.8	67
17	First Measurement of Transferred Polarization in the Exclusive $\hat{1}^{\uparrow}\hat{1}^{\uparrow}\hat{1}^{\uparrow}\hat{1}^{\uparrow}$ Reaction. Physical Review Letters, 2003, 90, 131804.	7.8	64
18	The MEGAPIE-TEST project: Supporting research and lessons learned in first-of-a-kind spallation target technology. Nuclear Engineering and Design, 2008, 238, 1471-1495.	1.7	63

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19	Liquid metal embrittlement susceptibility of T91 steel by lead/bismuth. Scripta Materialia, 2005, 52, 1323-1328.	5.2	62
20	Kinematically complete measurement of the proton structure function $F_2$ in the resonance region and evaluation of its moments. Physical Review D, 2003, 67, .	4.7	60
21	Effect of contact conditions on embrittlement of T91 steel by lead/bismuth. Journal of Nuclear Materials, 2004, 335, 227-231.	2.7	60
22	Measurement of the polarized structure function $F_1^p(\hat{q}^2, \hat{q}^2)$ in the $\gamma^*(1232)$ resonance region. Physical Review C, 2003, 68, .	2.9	58
23	Single $\pi^+$ electroproduction on the proton in the first and second resonance regions at $0.25 \text{ GeV}^2 < Q^2 < 0.65 \text{ GeV}^2$ . Physical Review C, 2006, 73, .	2.9	57
24	Photoproduction of the $\rho$ Meson on the Proton at Large Momentum Transfer. Physical Review Letters, 2001, 87, 172002.	7.8	49
25	Susceptibility to LME of 316L and T91 steels by LBE: Effect of strain rate. Journal of Nuclear Materials, 2008, 376, 317-321.	2.7	46
26	Liquid metal-induced fracture mode of martensitic T91 steels. Journal of Nuclear Materials, 2012, 426, 71-77.	2.7	45
27	Measurement of the polarized structure function $F_1^p(\hat{q}^2, \hat{q}^2)$ in the $\gamma^*(1232)$ resonance region. Physical Review C, 2004, 70, .	2.9	42
28	Photoproduction of the $\rho$ Meson on the Proton at Large Momentum Transfer. Physical Review Letters, 2003, 90, 022002.	7.8	40
29	$\int_0^1 dx f(x, Q^2)$ <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x"</small>	4.1	39
30	Measurement of inclusive spin structure functions of the deuteron. Physical Review C, 2003, 67, .	2.9	38
31	Two-Nucleon Momentum Distributions Measured in $\text{He}^3(e, e^2 p)n$ . Physical Review Letters, 2004, 92, 052303.	7.8	33
32	Polarized structure function $F_1^p(\hat{q}^2, \hat{q}^2)$ in the $\gamma^*(1232)$ resonance region. Physical Review C, 2003, 68, .	2.9	33
33	Temperature effect in the maximum propagation rate of a liquid metal filled crack: The T91 martensitic steel/Lead/Bismuth Eutectic system. Corrosion Science, 2009, 51, 2580-2587.	6.6	33
34	Liquid metal embrittlement of T91 and 316L steels by heavy liquid metals: A fracture mechanics assessment. Journal of Nuclear Materials, 2008, 377, 253-260.	2.7	31
35	Liquid metal embrittlement of an austenitic stainless steel in liquid sodium. Corrosion Science, 2014, 83, 1-5.	6.6	31
36	Role of oxidation on LME of T91 steel studied by small punch test. Journal of Nuclear Materials, 2008, 376, 336-340.	2.7	29

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37	Assessment of the lifetime of the beam window of MEGAPIE target liquid metal container. Journal of Nuclear Materials, 2006, 356, 308-320.	2.7	28
38	Effect of oxygen on liquid sodium embrittlement of T91 martensitic steel. Corrosion Science, 2013, 76, 441-452.	6.6	26
39	Electroproduction of the $\Lambda(1520)$ hyperon. Physical Review C, 2001, 64, .	2.9	24
40	Exclusive photoproduction of the cascade ( $\Xi$ ) hyperons. Physical Review C, 2005, 71, .	2.9	24
41	LiSoR, a liquid metal loop for material investigation under irradiation. Journal of Nuclear Materials, 2003, 318, 70-83.	2.7	23
42	Fracture mechanics behavior of the T91 martensitic steel in contact with liquid lead-bismuth eutectic for application in an accelerator driven system. Journal of Nuclear Materials, 2011, 415, 293-301.	2.7	22
43	Liquid metal embrittlement of a dual-phase Al <sub>0.7</sub> CoCrFeNi high-entropy alloy exposed to oxygen-saturated lead-bismuth eutectic. Scripta Materialia, 2021, 194, 113652.	5.2	22
44	$\rho$ -reaction studied in the $\Lambda(1232)$ mass region using polarization asymmetries. Physical Review C, 2003, 68, .	2.9	21
45	Proton Source Size Measurements in the $\Lambda p$ Reaction. Physical Review Letters, 2004, 93, 192301.	7.8	21
46	First Measurement of the Double Spin Asymmetry in $\pi^+ p \rightarrow \pi^+ n$ in the Resonance Region. Physical Review Letters, 2002, 88, 082001.	7.8	20
47	Measurement of the polarized structure function $T_1^{\pi}$ for pion electroproduction in the Roper-resonance region. Physical Review C, 2005, 72, .	2.9	20
48	Soot aggregate complex morphology: 3D geometry reconstruction by SEM tomography applied on soot issued from propane combustion. Journal of Aerosol Science, 2016, 93, 63-79.	3.8	19
49	Exclusive electroproduction of $\rho$ mesons at 4.2 GeV. Physical Review C, 2001, 63, .	2.9	18
50	Investigation of crack propagation resistance of 304L, 316L and 316L(N) austenitic steels in liquid sodium. Journal of Nuclear Materials, 2018, 507, 15-23.	2.7	17
51	Liquid metal embrittlement of an austenitic 316L type and a ferritic-martensitic T91 type steel by mercury. Journal of Nuclear Materials, 2008, 376, 312-316.	2.7	16
52	Wetting by liquid sodium and fracture path analysis of sodium induced embrittlement of 304L stainless steel. Journal of Materials Research, 2018, 33, 121-129.	2.6	16
53	Multiscale investigation of crack path and microstructural changes during liquid metal embrittlement of 304L austenitic steel in liquid sodium. Corrosion Science, 2017, 127, 213-221.	6.6	14
54	Tensor polarization of the $\rho$ -meson photoproduced at high energy. Physical Review C, 2004, 69, .	2.9	13

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55	A photon calorimeter using lead tungstate crystals for the CEBAF Hall A Compton polarimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 443, 231-237.	1.6	12
56	Liquid metal embrittlement and deformation induced martensite: The case of 316L austenitic steel LME by liquid eutectic gallium-indium. Corrosion Science, 2021, 192, 109850.	6.6	11
57	Corrected Article: Exclusive electroproduction of $\Upsilon$ mesons at 4.2 GeV [Phys. Rev. C63, 065205 (2001)]. Physical Review C, 2001, 64, .	2.9	9
58	Summary on the preliminary assessment of the T91 window performance in the MEGAPIE conditions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 562, 698-701.	1.6	7
59	Optimization of contact conditions between iron base alloys and mercury at room temperature. Journal of Nuclear Materials, 2008, 375, 102-112.	2.7	7
60	Validity of Crystal Plasticity Models Near Grain Boundaries: Contribution of Elastic Strain Measurements at Micron Scale. Jom, 2019, 71, 3543-3551.	1.9	5
61	Survey of asymmetries in semi-exclusive electron scattering on $^4\text{He}$ and $^{12}\text{C}$ . Nuclear Physics A, 2005, 748, 357-373.	1.5	4
62	Intergranular precipitation-enhanced wetting and phase transformation in an $\text{Al}_{0.4}\text{CoCrFeNi}$ high-entropy alloy exposed to lead-bismuth eutectic. Corrosion Science, 2022, 196, 110038.	6.6	3
63	L'impact de l'influence des métaux liquides sur les aciers inoxydables. Revue De Metallurgie, 2011, 108, 51-58.	0.3	2
64	Liquid Metal Embrittlement. , 2019, , 507-534.		2
65	Crack path in liquid metal embrittlement: experiments with steels and modeling. Frattura Ed Integrita Strutturale, 2016, 10, 250-259.	0.9	2
66	Photoproduction of vector mesons off the proton at high momentum transfer. Nuclear Physics A, 2001, 680, 286-289.	1.5	1
67	Modelling of liquid sodium induced crack propagation in T91 martensitic steel: Competition with ductile fracture. Journal of Nuclear Materials, 2016, 481, 24-32.	2.7	1
68	Crack path and liquid metal embrittlement specificity of austenitic steels in mercury at room temperature. Scripta Materialia, 2022, 215, 114733.	5.2	1
69	Requirements for a large solid angle detector for ELFE. Nuclear Physics A, 1997, 622, c157-c165.	1.5	0
70	MEMUS – A large solid angle detector for ELFE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 409, 400-401.	1.6	0
71	Publisher's Note: Two-Nucleon Momentum Distributions Measured in $^3\text{He}(e,e'pp)n$ [Phys. Rev. Lett.PRLA00031-900792, 052303 (2004)]. Physical Review Letters, 2004, 92, .	7.8	0
72	A Mechanical Study of T91 Embrittlement by Liquid Lead-bismuth Eutectic. Materials Research Society Symposia Proceedings, 2006, 981, 1.	0.1	0

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73	Microstructure and Texture Evolution of a Cold Rolled Ni-Cr-W Alloy after Annealing. Materials Science Forum, 0, 702-703, 352-355.	0.3	0
74	Cu Grain Boundary Embrittlement by Liquid Hg: A Comparison between Experiment and ab-initio Modeling. Materials Research Society Symposia Proceedings, 2013, 1515, 1.	0.1	0
75	Hardness and Microstructural Evolution of a JRQ A533 Cl.1 Steel Submitted to Thermal Annealing. , 2016, , .		0
76	Operation of High Power Liquid Metal Spallation Targets: a Challenge for the Structural Materials. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 575-584.	0.3	0
77	Observing Liquid Metal Embrittlement Cracks In Couple Systems. , 2018, , .		0