Thierry Auger

List of Publications by Year
in descending order

77 papers	3,790 citations	136950 32 h-index	123424 61 g-index
77 all docs	77 docs citations	77 times ranked	1855 citing authors

#	Article	IF	Citations
1	Intergranular precipitation-enhanced wetting and phase transformation in an Al0.4CoCrFeNi high-entropy alloy exposed to lead-bismuth eutectic. Corrosion Science, 2022, 196, 110038.	6.6	3
2	Environmental degradation of structural materials in liquid lead- and lead-bismuth eutectic-cooled reactors. Progress in Materials Science, 2022, 126, 100920.	32.8	111
3	Crack path and liquid metal embrittlement specificity of austenitic steels in mercury at room temperature. Scripta Materialia, 2022, 215, 114733.	5.2	1
4	Liquid metal embrittlement of a dual-phase Al0.7CoCrFeNi high-entropy alloy exposed to oxygen-saturated lead-bismuth eutectic. Scripta Materialia, 2021, 194, 113652.	5.2	22
5	Liquid metal embrittlement and deformation induced martensite: The case of 316ÂL austenitic steel LME by liquid eutectic gallium-indium. Corrosion Science, 2021, 192, 109850.	6.6	11
6	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
7	Validity of Crystal Plasticity Models Near Grain Boundaries: Contribution of Elastic Strain Measurements at Micron Scale. Jom, 2019, 71, 3543-3551.	1.9	5
8	Liquid Metal Embrittlement. , 2019, , 507-534.		2
9	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
10	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
11	Observing Liquid Metal Embrittlement Cracks In Couple Systems. , 2018, , .		0
12	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
13	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
14	Hardness and Microstructural Evolution of a JRQ A533 Cl.1 Steel Submitted to Thermal Annealing. , 2016, , .		0
15	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
16	Crack path in liquid metal embrittlement: experiments with steels and modeling. Frattura Ed Integrita Strutturale, 2016, 10, 250-259.	0.9	2
17	Liquid metal embrittlement of an austenitic stainless steel in liquid sodium. Corrosion Science, 2014, 83, 1-5.	6.6	31
18	Effect of oxygen on liquid sodium embrittlement of T91 martensitic steel. Corrosion Science, 2013, 76, 441-452.	6.6	26

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19	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
20	Liquidâ€“metal-induced fracture mode of martensitic T91 steels. Journal of Nuclear Materials, 2012, 426, 71-77.	2.7	45
21	Lâ€™influence des mÃ©taux liquides sur les aciers inoxydables. Revue De Metallurgie, 2011, 108, 51-58.	0.3	2
22	Fracture mechanics behavior of the T91 martensitic steel in contact with liquid leadâ€“bismuth eutectic for application in an accelerator driven system. Journal of Nuclear Materials, 2011, 415, 293-301.	2.7	22
23	Influence of liquid lead and leadâ€“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
24	Temperature effect in the maximum propagation rate of a liquid metal filled crack: The T91 martensitic steel/Leadâ€“Bismuth Eutectic system. Corrosion Science, 2009, 51, 2580-2587.	6.6	33
25	Optimization of contact conditions between iron base alloys and mercury at room temperature. Journal of Nuclear Materials, 2008, 375, 102-112.	2.7	7
26	Role of oxidation on LME of T91 steel studied by small punch test. Journal of Nuclear Materials, 2008, 376, 336-340.	2.7	29
27	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
28	Liquid metal embrittlement of an austenitic 316L type and a ferriticâ€“martensitic T91 type steel by mercury. Journal of Nuclear Materials, 2008, 376, 312-316.	2.7	16
29	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
30	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
31	Polarized structure function<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>Ïƒ</mml:mi><mml:mrow><mml:msup><mml:mi mathvariant="italic">LT</mml:mi><mml:mrow><mml:mo>'</mml:mo></mml:mrow></mml:msup></mml:mrow></mml:msub></mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">H</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:mmultis. Physical Review C, 2008, 77, .	2.9	33
32	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
33	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
34	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
35	A Mechanical Study of T91 Embrittlement by Liquid Lead-bismuth Eutectic. Materials Research Society Symposia Proceedings, 2006, 981, 1.	0.1	0
36	SingleÏ€+electroproduction on the proton in the first and second resonance regions at0.25GeV2<Q2<0.65GeV2. Physical Review C, 2006, 73, .	2.9	57

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37	<mml:math altimg="si1.gif" overflow="scroll" 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:sb="http://www.elsevier.com/xml/common/struct-bib/dtd"	4.1	39
38	Survey of asymmetries in semi-exclusive electron scattering on 4He and 12C. Nuclear Physics A, 2005, 748, 357-373.	1.5	4
39	Liquid metal embrittlement susceptibility of T91 steel by lead?bismuth. Scripta Materialia, 2005, 52, 1323-1328.	5.2	62
40	Measurement of the polarized structure functionÏƒLT'for pion electroproduction in the Roper-resonance region. Physical Review C, 2005, 72, .	2.9	20
41	Exclusive photoproduction of the cascade (Îž) hyperons. Physical Review C, 2005, 71, .	2.9	24
42	Measurement of the polarized structure functionÏƒLTâ€²forp(eâƒ—,eâ€²Ï€+)nin theÎ”(1232)resonance region. Physical Review C, 2004, 70, .	2.9	42
43	Observation of an Exotic Baryon withS=+1in Photoproduction from the Proton. Physical Review Letters, 2004, 92, 032001.	7.8	234
44	Measurement of beam-spin asymmetries for Ï€+ electroproduction above the baryon resonance region. Physical Review D, 2004, 69, .	4.7	110
45	Proton Source Size Measurements in theAâ†’eâ€²ppXReaction. Physical Review Letters, 2004, 93, 192301.	7.8	21
46	Publisherâ€™s Note: Two-Nucleon Momentum Distributions Measured inHe3(e,eâ€²pp)n[Phys. Rev. Lett.PRLTAO0031-900792, 052303 (2004)]. Physical Review Letters, 2004, 92, .	7.8	0
47	Hyperon photoproduction in the nucleon resonance region. Physical Review C, 2004, 69, .	2.9	159
48	Two-Nucleon Momentum Distributions Measured inHe3(e,eâ€²pp)n. Physical Review Letters, 2004, 92, 052303.	7.8	33
49	Tensor polarization of theÏ•meson photoproduced at hight. Physical Review C, 2004, 69, .	2.9	13
50	Effect of contact conditions on embrittlement of T91 steel by leadâ€“bismuth. Journal of Nuclear Materials, 2004, 335, 227-231.	2.7	60
51	LiSoR, a liquid metal loop for material investigation under irradiation. Journal of Nuclear Materials, 2003, 318, 70-83.	2.7	23
52	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
53	epâ†’epÏ€0reaction studied in theÎ”(1232)mass region using polarization asymmetries. Physical Review C, 2003, 68, .	2.9	21
54	Photoproduction of theÏ‰Meson on the Proton at Large Momentum Transfer. Physical Review Letters, 2003, 90, 022002.	7.8	40

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55	Measurement of the Proton Spin Structure Functiong1(x,Q2)forQ2from 0.15 to1.6â€‰â€‰GeV2with CLAS. Physical Review Letters, 2003, 91, 222002.	7.8	67
56	Observation of nuclear scaling in theA(e,eâ€²)reaction atxB›1. Physical Review C, 2003, 68, .	2.9	132
57	Measurement ofepâ†'eâ€²pï€+Ï€â^'and Baryon Resonance Analysis. Physical Review Letters, 2003, 91, 022002.	7.8	105
58	Kinematically complete measurement of the proton structure functionF2in the resonance region and evaluation of its moments. Physical Review D, 2003, 67, .	4.7	60
59	First Measurement of Transferred Polarization in the Exclusiveeâ†'pâ†'eâ€²K+Î›â†'Reaction. Physical Review Letters, 2003, 90, 131804.	7.8	64
60	Measurement of inclusive spin structure functions of the deuteron. Physical Review C, 2003, 67, .	2.9	38
61	Measurement of the polarized structure functionÏƒLTâ€²forp(eâ†',eâ€²p)Ï€0in theÎ"(1232)resonance region. Physical Review C, 2003, 68, .	2.9	58
62	First Measurement of the Double Spin Asymmetry ineâ†'pâ†'â†'eâ€²Ï€+nin the Resonance Region. Physical Review Letters, 2002, 88, 082001.	7.8	20
63	Q2Dependence of Quadrupole Strength in theÎ³*pâ†'Î"+(1232)â†'pÏ€0Transition. Physical Review Letters, 2002, 88, 122001.	7.8	191
64	Î·Photoproduction on the Proton for Photon Energies from 0.75 to 1.95ÂGeV. Physical Review Letters, 2002, 89, 222002.	7.8	111
65	Photoproduction of vector mesons off the proton at high momentum transfer. Nuclear Physics A, 2001, 680, 286-289.	1.5	1
66	Theepâ†'eâ€²pÎ·Reaction at and above theS11(1535)Baryon Resonance. Physical Review Letters, 2001, 86, 1702-1706.	7.8	102
67	Photoproduction of theÏ0Meson on the Proton at Large Momentum Transfer. Physical Review Letters, 2001, 87, 172002.	7.8	49
68	Electroproduction of the Î›(1520) hyperon. Physical Review C, 2001, 64, .	2.9	24
69	Exclusive electroproduction ofÏ†mesons at 4.2 GeV. Physical Review C, 2001, 63, .	2.9	18
70	Corrected Article: Exclusive electroproduction of Ï† mesons at 4.2 GeV [Phys. Rev. C63, 065205 (2001)]. Physical Review C, 2001, 64, .	2.9	9
71	Observation of Exclusive Deeply Virtual Compton Scattering in Polarized Electron Beam Asymmetry Measurements. Physical Review Letters, 2001, 87, .	7.8	243
72	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

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73	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
74	Photoproduction ofÏ†(1020)Mesons on the Proton at Large Momentum Transfer. Physical Review Letters, 2000, 85, 4682-4686.	7.8	67
75	MEMUS â€“ 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
76	Requirements for a large solid angle detector for ELFE. Nuclear Physics A, 1997, 622, c157-c165.	1.5	0
77	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