

# David E Laughlin

## List of Publications by Year in descending order

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43  
papers

2,988  
citations

279487

23  
h-index

344852

36  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2124  
citing authors

#	ARTICLE	IF	CITATIONS
1	Amorphous and nanocrystalline materials for applications as soft magnets. Progress in Materials Science, 1999, 44, 291-433.	16.0	1,415
2	Spinodal decomposition in age hardening copper-titanium alloys. Acta Metallurgica, 1975, 23, 329-339.	2.1	246
3	Effects of Ag underlayers on the microstructure and magnetic properties of epitaxial FePt thin films. Journal of Applied Physics, 2001, 89, 7068-7070.	1.1	219
4	Thermal stability of the nanocrystalline Fe-Co-Hf-B-Cu alloy. Journal of Applied Physics, 1999, 85, 4424-4426.	1.1	85
5	Phase transformation of the L1 <sub>2</sub> phase to kappa-carbide after spinodal decomposition and ordering in an Fe-C-Mn-Al austenitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 642, 128-135.	2.6	85
6	Fabrication and nanostructure of oriented FePt particles. Journal of Applied Physics, 2000, 87, 6962-6964.	1.1	76
7	L1 <sub>1</sub> FePt-oxide columnar perpendicular media with high coercivity and small grain size. Journal of Applied Physics, 2008, 104, .	1.1	72
8	Fe <sub>3</sub> O <sub>4</sub> thin films sputter deposited from iron oxide targets. Journal of Applied Physics, 2003, 93, 7957-7959.	1.1	65
9	L1 <sub>0</sub> FePt-MgO perpendicular thin film deposited by alternating sputtering at elevated temperature. Journal of Applied Physics, 2006, 99, 08F907.	1.1	55
10	Magnetoresistance of polycrystalline Fe <sub>3</sub> O <sub>4</sub> films prepared by reactive sputtering at room temperature. Journal of Applied Physics, 2005, 97, 10C303.	1.1	50
11	The effects of Ag underlayer and Pt intermediate layers on the microstructure and magnetic properties of epitaxial FePt thin films. Journal of Magnetism and Magnetic Materials, 2003, 260, 282-294.	1.0	48
12	Magnetic structure and hysteresis in hard magnetic nanocrystalline film: Computer simulation. Journal of Applied Physics, 2002, 92, 6172-6181.	1.1	47
13	Influence of Ba content on grain size and dynamics of crystallization in barium ferrite thin films. Journal of Applied Physics, 1997, 81, 4380-4382.	1.1	40
14	Structure and magnetic properties of L1 <sub>0</sub> CoPt(Ag/MgO,MgO) thin films. Journal of Applied Physics, 2000, 87, 6950-6952.	1.1	40
15	Magnetic Properties of Metals and Alloys. , 2014, , 1881-2008.		39
16	Quantitative transmission electron microscopy analysis of multi-variant grains in present L1-FePt based heat assisted magnetic recording media. Journal of Applied Physics, 2014, 116, .	1.1	38
17	Epitaxial Ag templates on Si(001) for bicrystal CoCrTa media. Journal of Applied Physics, 1997, 81, 4370-4372.	1.1	35
18	Highly oriented perpendicular Co-alloy media on Si(111) substrates. Journal of Applied Physics, 1999, 85, 4699-4701.	1.1	35

#	ARTICLE	IF	CITATIONS
19	Columnar grain growth of FePt(L1) thin films. Journal of Applied Physics, 2012, 111, .	1.1	35
20	Unicrystal Co alloy media on Si(110). Journal of Applied Physics, 1999, 85, 4723-4725.	1.1	30
21	Ordering in copper-titanium alloys. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1974, 5, 972-974.	1.4	29
22	Dependence of Co anisotropy constants on temperature, processing, and underlayer. Journal of Applied Physics, 2000, 87, 6884-6886.	1.1	26
23	Barium ferrite thin film media with perpendicular c-axis orientation and small grain size. Journal of Applied Physics, 2000, 87, 6370-6372.	1.1	25
24	Structure and magnetic properties of L10-FePt thin films on TiN/RuAl underlayers. Journal of Applied Physics, 2011, 109, 07B770.	1.1	25
25	Development of magnetic domains in hard ferromagnetic thin films of polytwinned microstructure. Journal of Applied Physics, 2002, 92, 7408-7414.	1.1	19
26	Highly oriented NiFe soft magnetic films on Si substrates. Journal of Applied Physics, 1999, 85, 5750-5752.	1.1	18
27	Effect of seed layers in improving the crystallographic texture of CoCrPt perpendicular recording media. Journal of Applied Physics, 2002, 91, 8076.	1.1	14
28	Diffusional Phase Transformations in the Solid State. , 2014, , 851-1020.		14
29	Characterization of interfacial reactions in magnetite tunnel junctions with transmission electron microscopy. Journal of Applied Physics, 2004, 95, 6798-6800.	1.1	12
30	Microstructure of Longitudinal Media. Springer Series in Surface Sciences, 2001, , 33-80.	0.3	10
31	Epitaxial growth of lead zirconium titanate thin films on Ag buffered Si substrates using rf sputtering. Applied Physics Letters, 2007, 90, 172903.	1.5	9
32	Cellular decomposition in a Cu-25Ni-15Co side-band alloy. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1985, 16, 1751-1757.	1.4	7
33	Inverse magnetoresistance in magnetic tunnel junction with a plasma-oxidized Fe electrode and the effect of annealing on its transport properties. Journal of Applied Physics, 2005, 97, 10C907.	1.1	6
34	Investigation of (Fe,Co)NbB-Based Nanocrystalline Soft Magnetic Alloys by Lorentz Microscopy and Off-Axis Electron Holography. Microscopy and Microanalysis, 2015, 21, 498-509.	0.2	5
35	Determination of Pressure Effects on the $\hat{L}_2 \hat{A}_1 \hat{L}_3$ Phase Transition and Size of Fe in Nd-Fe-B Spring Exchange Magnets. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 5002-5010.	1.1	5
36	New highly oriented soft magnetic underlayer structures for perpendicular recording. Journal of Applied Physics, 2000, 87, 6355-6357.	1.1	4

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37	Highly Oriented Co Soft Magnetic Films on Si Substrates. Materials Research Society Symposia Proceedings, 1999, 562, 27.	0.1	3
38	Growth of CoCrTa(112̄ <sub>1</sub> ,0)-oriented thin films on a D03 Mn <sub>3</sub> Si(002) underlayer. Journal of Applied Physics, 2000, 87, 6698-6700.	1.1	2
39	Epitaxial Co/NiAl Thin Film Growth on Si Substrates. Materials Research Society Symposia Proceedings, 1999, 562, 333.	0.1	0
40	Epitaxial Co/NiAl Thin Film Growth on Si Substrates. Materials Research Society Symposia Proceedings, 1999, 577, 359.	0.1	0
41	C-Axis Perpendicularly Oriented Barium Ferrite Thin Film Media On Silicon Substrate. Materials Research Society Symposia Proceedings, 1999, 577, 605.	0.1	0
42	C-Axis Perpendicularly Oriented Barium Ferrite Thin Film Media on Silicon Substrate. Materials Research Society Symposia Proceedings, 1999, 562, 289.	0.1	0
43	A New Perspective on the Kauzmann Entropy Paradox: A Crystal/Glass Critical Point in Four- and Three-Dimensions. Proceedings (mdpi), 2019, 46, .	0.2	0