

# Peter Baumgart

## List of Publications by Year in descending order

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29  
papers

1,300  
citations

623734

14  
h-index

610901

24  
g-index

29  
all docs

29  
docs citations

29  
times ranked

778  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetotransport properties of magnetically soft spin-valve structures (invited). Journal of Applied Physics, 1991, 69, 4774-4779.	2.5	553
2	A new laser texturing technique for high performance magnetic disk drives. IEEE Transactions on Magnetics, 1995, 31, 2946-2951.	2.1	145
3	Giant magnetoresistance of magnetically soft sandwiches: Dependence on temperature and on layer thicknesses. Physical Review B, 1992, 45, 806-813.	3.2	138
4	The role of spin-dependent impurity scattering in Fe/Cr giant magnetoresistance multilayers. Journal of Applied Physics, 1991, 69, 4792-4794.	2.5	89
5	Will the numbers add up for sub-7-nm magnetic spacings? Future metrology issues for disk drive lubricants, overcoats, and topographies. IEEE Transactions on Magnetics, 2005, 41, 626-631.	2.1	57
6	Experimental and theoretical studies of bump formation during laser texturing of Ni-P disk substrates. IEEE Transactions on Magnetics, 1996, 32, 3771-3773.	2.1	37
7	Numerical and Experimental Analyses of Nanometer-Scale Flying Height Control of Magnetic Head With Heating Element. IEEE Transactions on Magnetics, 2008, 44, 3679-3682.	2.1	34
8	Influence of Contact Potential on Slider-Disk Spacing: Simulation and Experiment. IEEE Transactions on Magnetics, 2004, 40, 3165-3167.	2.1	33
9	Dynamics of Contacting Head-Disk Interfaces. IEEE Transactions on Magnetics, 2004, 40, 3156-3158.	2.1	32
10	Giant magnetoresistance of Fe/Cr multilayers: Impurity scattering model of the influence of third elements deposited at the interfaces. Journal of Applied Physics, 1991, 70, 5867-5869.	2.5	24
11	Laser texturing of glass disk substrates. IEEE Transactions on Magnetics, 1997, 33, 3181-3183.	2.1	16
12	A Novel Wear-In-Pad Approach to Minimizing Spacing at the Head/Disk Interface. IEEE Transactions on Magnetics, 2004, 40, 3148-3152.	2.1	16
13	Development of stable extreme-ultraviolet sources for use in lithography exposure systems. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2012, 11, 021110-1.	0.9	15
14	Tribology of laser-textured and mechanically-textured media. IEEE Transactions on Magnetics, 1997, 33, 3190-3192.	2.1	14
15	Modeling and simulation of hard-particle interaction in head/disk interfaces. IEEE Transactions on Magnetics, 2005, 41, 604-609.	2.1	14
16	Laser produced plasma EUV sources for device development and HVM. Proceedings of SPIE, 2012, , .	0.8	13
17	Tribology of laser textured disks with thin overcoat. IEEE Transactions on Magnetics, 1997, 33, 3184-3186.	2.1	12
18	LPP source system development for HVM. , 2011, , .		12

#	ARTICLE	IF	CITATIONS
19	Tribological properties and environmental effects of nano and pico sliders on laser textured media. IEEE Transactions on Magnetics, 1998, 34, 1732-1734.	2.1	9
20	Issues on high-speed laser zone texturing of magnetic disk substrates with improved quality. IEEE Transactions on Magnetics, 1998, 34, 1807-1809.	2.1	8
21	Challenges of the head-disk interface for near contact and contact recording. IEEE Transactions on Magnetics, 1999, 35, 2466-2468.	2.1	6
22	Acoustic emission and stiction analysis of patterned laser textured media. IEEE Transactions on Magnetics, 1999, 35, 921-926.	2.1	6
23	Laser produced plasma light source for EUVL. Proceedings of SPIE, 2011, , .	0.8	6
24	CO2/Sn LPP EUV sources for device development and HVM. , 2013, , .		5
25	Bump formation and growth by multiple laser pulses on Ni-P disk substrate. IEEE Transactions on Magnetics, 1998, 34, 1786-1788.	2.1	2
26	Review of laser-based applications advancing magnetic-recording hard-disk-drive technology (Invited) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		
27	A study of pulsed-laser bump formation on smooth glass substrates. IEEE Transactions on Magnetics, 1998, 34, 1789-1791.	2.1	1
28	Nonlinear Thermal Protrusion and Slider Disk Contact Forces. , 2007, , .		1
29	Voltage pulsing for localized clearance measurement. IEEE Transactions on Magnetics, 2005, 41, 4454-4456.	2.1	0