

# Soma Banik

## List of Publications by Year in descending order

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44  
papers

1,127  
citations

430874

18  
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395702

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44  
docs citations

44  
times ranked

843  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and electronic properties of Ni <sub>2</sub> MnGa. Physical Review B, 2005, 72, .	3.2	108
2	Theoretical prediction and experimental study of a ferromagnetic shape memory alloy: $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{display}=\text{"inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Ga} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle 2 \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Mn} \langle \text{mml:mi} \rangle \text{NiGa} \langle \text{mml:mtext} \rangle \text{ at Room Temperature. Physical Review B, 2008, 78, .$	3.2	105
3	Structural studies of Ni <sub>2+x</sub> Mn <sub>1-x</sub> Ga by powder x-ray diffraction and total energy calculations. Physical Review B, 2007, 75, .	3.2	90
4	Martensitic transition, ferrimagnetism and Fermi surface nesting in Mn <sub>2</sub> NiGa. Europhysics Letters, 2007, 80, 57002.	2.0	89
5	Spin-Valve-Like Magnetoresistance in $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{display}=\text{"inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Mn} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle 2 \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{NiGa} \langle \text{mml:mtext} \rangle \text{ at Room Temperature. Physical Review Letters, 2012, 109, 246601.}$	3.2	88
6	Powder x-ray diffraction study of the thermoelastic martensitic transition in Ni <sub>2</sub> Mn <sub>1.05</sub> Ga <sub>0.95</sub> . Physical Review B, 2006, 74, .	3.2	74
7	Influence of Ni doping on the electronic structure of Ni <sub>2</sub> MnGa. Physical Review B, 2005, 72, .	3.2	67
8	Phase diagram and electronic structure of Ni <sub>2+x</sub> Mn <sub>1-x</sub> Ga. Physical Review B, 2006, 74, .	3.2	50
9	Magnetoresistance behavior of ferromagnetic shape memory alloy $\langle \text{mml:math} \text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{display}=\text{"inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Ni} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1.75 \langle \text{mml:mn} \rangle 1.75 \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Mn} \langle \text{mml:mi} \rangle \text{NiGa} \langle \text{mml:mtext} \rangle \text{ at Room Temperature. Physical Review B, 2008, 77, .}$	3.2	49
10	Magnetic Compton scattering study of Ni <sub>2+x</sub> Mn <sub>1-x</sub> Ga ferromagnetic shape-memory alloys. Physical Review B, 2007, 75, .	3.2	45
11	Argon Nanobubbles in Al(111): A Photoemission Study. Physical Review Letters, 2004, 92, 115506.	7.8	32
12	Versatile UHV compatible Knudsen type effusion cell. Review of Scientific Instruments, 2004, 75, 4467-4470.	1.3	32
13	Variation of magnetoresistance in Ni <sub>2+x</sub> Mn <sub>1-x</sub> Ga with composition. Journal of Applied Physics, 2009, 106, .	2.5	32
14	Compton scattering studies of Mn-rich Ni-Mn-Ga ferromagnetic shape memory alloys. Physical Review B, 2009, 79, .	3.2	25
15	Growth and electronic structure of alkali-metal adlayers on icosahedral Al <sub>70.5</sub> Pd <sub>21</sub> Mn <sub>8.5</sub> . Physical Review B, 2006, 73, .	3.2	21
16	Optimal operating conditions and characteristics of acetone-CaF <sub>2</sub> detector for inverse photoemission spectroscopy. Review of Scientific Instruments, 2005, 76, 066102.	1.3	19
17	Electronic structure of EuCu <sub>2</sub> Ge <sub>2</sub> studied by resonant photoemission and x-ray absorption spectroscopy. Physical Review B, 2012, 86, .	3.2	18
18	Study of electronic structure of Co <sub>2</sub> MnSn Heusler alloy by resonant photoemission spectroscopy and ab initio calculations. Journal of Alloys and Compounds, 2015, 645, 112-117.	5.5	18



#	ARTICLE	IF	CITATIONS
37	Electronic structure of buried Co-Cu interface studied with photoemission spectroscopy. Journal of Applied Physics, 2012, 112, 103702.	2.5	2
38	Nitrogen-Ion Implantation Induced Bandgap Tailoring in Multifunctional Brownmillerite KBiFe <sub>2</sub> O <sub>5</sub> . ECS Journal of Solid State Science and Technology, 2021, 10, 061010.	1.8	2
39	Electronic Structure Of EuCu <sub>2</sub> Ge <sub>2</sub> Studied By Resonant Photoemission Spectroscopy. , 2011, , .		1
40	Pressure and Temperature Dependent Structure Of Zircon Type ThGeO <sub>4</sub> . Journal of Physics: Conference Series, 2012, 377, 012031.	0.4	1
41	Competition between axial anomaly and ferromagnetic ordering in Bi <sub>2-x</sub> Fe <sub>x</sub> Se <sub>3</sub> topological insulator: A study of magnetic and magnetotransport properties. Journal of Materiomics, 2022, 8, 669-677.	5.7	1
42	Electronic Band Dispersion Of CeAg <sub>2</sub> Ge <sub>2</sub> Studied Using Angle Resolved Photoemission Spectroscopy. , 2011, , .		0
43	Electronic structure of Co <sub>2</sub> MnSn Heusler alloy. , 2013, , .		0
44	Electronic structure of Co-Ni-Ga Heusler alloys studied by resonant photoemission. , 2014, , .		0