

Ph Djmia

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

1,368
citations

22
h-index

33
g-index

89
ext. papers

1,514
ext. citations

3.5
avg. IF

4.21
L-index

#	Paper	IF	Citations
84	Mechanical properties of Li ₂ MoO ₄ single crystals. <i>Journal of Applied Physics</i> , 2022 , 131, 175102	2.5	1
83	Effect of composition and nanostructure on the mechanical properties and thermal stability of Zr _{100-x} Cu _x thin film metallic glasses. <i>Materials and Design</i> , 2022 , 110752	8.1	1
82	Thermal, electrical, and mechanical properties of hard nitrogen-alloyed Cr thin films deposited by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2022 , 128575	4.4	1
81	Elastic properties assessment in the multiferroic BiFeO ₃ by pump and probe method. <i>Applied Physics Letters</i> , 2021 , 118, 062902	3.4	0
80	Novel class of nanostructured metallic glass films with superior and tunable mechanical properties. <i>Acta Materialia</i> , 2021 , 213, 116955	8.4	15
79	Influence of elastic anisotropy on measured sound velocities and elastic moduli of polycrystalline cubic solids. <i>Journal of Applied Physics</i> , 2021 , 130, 035903	2.5	0
78	Design of defected TaN supercells dataset for structural and elastic properties from ab initio simulations and comparison to experimental data. <i>Data in Brief</i> , 2020 , 30, 105411	1.2	
77	Structure, stress, and mechanical properties of Mo-Al-N thin films deposited by dc reactive magnetron cosputtering: Role of point defects. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020 , 38, 053401	2.9	6
76	Prediction on temperature dependent elastic constants of soft metal Al by AIMD and QHA. <i>Journal of Materials Science and Technology</i> , 2020 , 45, 92-97	9.1	2
75	Dynamical Viscoelastic Properties of Poly(Ester-Urethane) Biomaterial for Scaffold Applications. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 1-8	0.4	1
74	Large influence of vacancies on the elastic constants of cubic epitaxial tantalum nitride layers grown by reactive magnetron sputtering. <i>Acta Materialia</i> , 2020 , 184, 254-266	8.4	15
73	Mechanical properties of CoCrCuFeNi multi-principal element alloy thin films on Kapton substrates. <i>Surface and Coatings Technology</i> , 2020 , 402, 126474	4.4	4
72	Elastic anisotropy and single-crystal moduli of solid argon up to 64 GPa from time-domain Brillouin scattering. <i>Physical Review B</i> , 2019 , 99,	3.3	4
71	Sound Velocities and Elastic Moduli of Phases I and V of Silicon at High Pressures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900173	2.5	1
70	Elastic properties of Hf and Tantalum thin films. <i>Thin Solid Films</i> , 2019 , 688, 137403	2.2	11
69	Characterization of elastomeric scaffolds developed for tissue engineering applications by compression and nanoindentation tests, -Raman and -Brillouin spectroscopies. <i>Biomedical Optics Express</i> , 2019 , 10, 1649-1659	3.5	7
68	Reactive sputter deposition of CoCrCuFeNi in nitrogen/argon mixtures. <i>Journal of Alloys and Compounds</i> , 2018 , 769, 881-888	5.7	22

67	Thin films of binary amorphous Zn-Zr alloys developed by magnetron co-sputtering for the production of degradable coronary stents: A preliminary study. <i>Bioactive Materials</i> , 2018 , 3, 385-388	16.7	2
66	Mechanical properties of elementary layers involved in a multilayer optical stack by photon-acoustic phonon interaction approaches. <i>Journal of Applied Physics</i> , 2018 , 124, 125307	2.5	2
65	Setup for high-temperature surface Brillouin light scattering: Application to opaque thin films and coatings. <i>Review of Scientific Instruments</i> , 2017 , 88, 023903	1.7	7
64	Impurity-controlled film growth and elastic properties of CoCrCuFeNi thin films. <i>Surface and Coatings Technology</i> , 2017 , 315, 475-483	4.4	13
63	Structural-elastic relationships of Zr-TL (TL=Co, Ni) thin films metallic glasses. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 126-131	5.7	20
62	Annealing effect on elastic, magnetic and magnetoelastic properties of CoFeB thin films on polymer substrate. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 455002	3	3
61	The nanostructure and mechanical properties of nanocomposite Nb _x -CoCrCuFeNi thin films. <i>Scripta Materialia</i> , 2017 , 139, 155-158	5.6	22
60	Longitudinal sound velocities, elastic anisotropy, and phase transition of high-pressure cubic H ₂ O ice to 82 GPa. <i>Physical Review B</i> , 2017 , 96,	3.3	16
59	Elastic and plastic properties of as-cast equimolar TiHfZrTaNb high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 654, 30-38	5.3	103
58	Extrinsic mechanical size effects in thin ZrNi metallic glass films. <i>Acta Materialia</i> , 2015 , 90, 232-241	8.4	79
57	Peculiar effective elastic anisotropy of nanometric multilayers studied by surface Brillouin scattering. <i>Superlattices and Microstructures</i> , 2015 , 88, 551-560	2.8	
56	Structural and elastic properties of ternary silicides ScT ₂ Si (T=Co, Ni, Cu, Ru, Rh, Pd, Ir, Pt) and of the equiatomic intermetallic compounds YTX (T=Ni, Ir and X=Si, Ge, Sn, Pb). <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2769-2777	1.3	4
55	First-principles calculation of the structural and elastic properties of ternary metal nitrides TaxMo _{1-x} N and TaxW _{1-x} N. <i>Journal of Physics: Conference Series</i> , 2015 , 640, 012022	0.3	1
54	Exploring the mechanical size effects in Zr ₆₅ Ni ₃₅ thin film metallic glasses. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S90-S92	5.7	23
53	Alloying effects on the structure and elastic properties of hard coatings based on ternary transition metal (M = Ti, Zr or Ta) nitrides. <i>Surface and Coatings Technology</i> , 2014 , 257, 129-137	4.4	33
52	Electronic structure and mechanical properties of ternary ZrTa ₂ N alloys studied by ab initio calculations and thin-film growth experiments. <i>Physical Review B</i> , 2014 , 90,	3.3	37
51	Structure, electrical conductivity, critical superconducting temperature and mechanical properties of Ti _{1-x} N _x O _y thin films. <i>Surface and Coatings Technology</i> , 2013 , 237, 196-204	4.4	7
50	Structural and elastic properties of ternary metal nitrides Ti _x Ta _{1-x} N alloys: First-principles calculations versus experiments. <i>Surface and Coatings Technology</i> , 2013 , 215, 199-208	4.4	34

49	Lattice instability and elastic response of metastable Mo _{1-x} Si _x thin films. <i>Physical Review B</i> , 2013 , 88,	3.3	15
48	Phase transition signature on elastic constants in Al _{1-x} Cr _x Ny ternary alloys thin films. <i>Applied Physics Letters</i> , 2013 , 103, 041601	3.4	7
47	Ab-initio calculations of the photoelastic constants of the cubic SiC polytype. <i>Journal of Physics: Conference Series</i> , 2013 , 454, 012060	0.3	3
46	Effects of Alkali Treatment on the Microstructure, Composition, and Properties of the <i>Raffia</i> <i>textilis</i> Fiber. <i>BioResources</i> , 2013 , 8,	1.3	28
45	Structure, phase stability and elastic properties in the Ti _{1-x} Zr _x N thin-film system: Experimental and computational studies. <i>Acta Materialia</i> , 2012 , 60, 5601-5614	8.4	67
44	Structural and elastic properties of single-crystal and polycrystalline Ti _{1-x} Zr _x N alloys: A computational study. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S138-S142	5.7	12
43	Brillouin scattering of light by spin waves in ferromagnetic nanorods. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 3406-3409	2.8	1
42	Elastic properties of metastable Mo _{1-x} Si _x alloy thin films: A Brillouin light scattering study. <i>Surface and Coatings Technology</i> , 2011 , 206, 1824-1829	4.4	6
41	Ab initio calculation of the elastic properties and the lattice dynamics of the AlAs _x Sb _{1-x} alloy under pressure. <i>High Pressure Research</i> , 2011 , 31, 310-324	1.6	5
40	X-ray strain analysis in thin films enhanced by 2D detection. <i>EPJ Web of Conferences</i> , 2010 , 6, 26008	0.3	
39	Elastic-strain distribution in metallic film-polymer substrate composites. <i>Applied Physics Letters</i> , 2010 , 96, 041905	3.4	31
38	Magnetic excitation in weak stripe domains: Ferromagnetic resonance and Brillouin light scattering studies. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 072107	0.3	8
37	Weak stripe domains vibrations description using Thiele equation. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 042027	0.3	1
36	Electromechanical properties of single domain PZN ₉₈ PT ₂ measured by three different methods. <i>Solid State Sciences</i> , 2010 , 12, 298-301	3.4	3
35	Elastic anisotropy of polycrystalline Au films: Modeling and respective contributions of X-ray diffraction, nanoindentation and Brillouin light scattering. <i>Acta Materialia</i> , 2010 , 58, 4998-5008	8.4	35
34	Spin-wave modes in Ni nanorod arrays studied by Brillouin light scattering. <i>Physical Review B</i> , 2009 , 80,	3.3	40
33	AB INITIO CALCULATION OF THE LATTICE DYNAMICS OF THE ZnSe _{1-x} Te _x ALLOY. <i>Modern Physics Letters B</i> , 2009 , 23, 3453-3462	1.6	1
32	Magnetic excitations in (SiO ₂)Co nano-composite films: Brillouin light scattering study. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 876-879	2.8	4

31	On the microstructure and physical properties of untreated raffia textilis fiber. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 418-422	8.4	79
30	Ab initio calculation of the elastic properties and the lattice dynamics of the AgBr _{1-x} Cl _x alloy. <i>Computational Materials Science</i> , 2009 , 47, 308-313	3.2	12
29	Ab initio calculation of the elastic properties and the lattice dynamics of the ZnxCd _{1-x} Se alloy. <i>Semiconductor Science and Technology</i> , 2009 , 24, 045005	1.8	23
28	Brillouin light scattering observation of the transition from the superparamagnetic to the superferromagnetic state in nanogranular (SiO ₂)Co films. <i>Journal of Applied Physics</i> , 2008 , 104, 093912	2.5	16
27	Defects and magnetic properties in Mn-implanted 3C-SiC epilayer on Si(100): Experiments and first-principles calculations. <i>Physical Review B</i> , 2008 , 78,	3.3	38
26	Elastic properties of single crystal diamond made by CVD. <i>Diamond and Related Materials</i> , 2007 , 16, 962-965	3.5	10
25	Elasticity and lattice vibrational properties of transparent polycrystalline yttrium-aluminium garnet: Experiments and pair potential calculations. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 4719-4725	6	11
24	Ab initio calculation of the lattice dynamics of the Boron group-V compounds under high pressure. <i>High Pressure Research</i> , 2007 , 27, 269-277	1.6	14
23	Study of texture effect on elastic properties of Au thin films by x-ray diffraction and Brillouin light scattering. <i>Journal of Physics: Conference Series</i> , 2007 , 92, 012170	0.3	2
22	High-intensity Brillouin light scattering by spin waves in a permalloy film under microwave resonance pumping. <i>Journal of Applied Physics</i> , 2007 , 102, 103905	2.5	7
21	THEORETICAL INVESTIGATION OF THE ELASTIC PROPERTIES AND LATTICE DYNAMICS OF THE Mg _x Se _{1-x} ALLOY. <i>Modern Physics Letters B</i> , 2007 , 21, 249-259	1.6	13
20	Brillouin light scattering in ferromagnetic single layers: hysteresis loop and backward geometry. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 3244-3248		1
19	Characterizations of CN _x thin films made by ionized physical vapor deposition. <i>Thin Solid Films</i> , 2005 , 482, 192-196	2.2	6
18	Strain, interdiffusion, and microstructural evolution under ion irradiation in Ni(111)/Mo(110) multilayers: Interdependence with elastic properties. <i>Physical Review B</i> , 2005 , 71,	3.3	14
17	Elastic properties of SiC films by Brillouin light scattering. <i>Journal of Applied Physics</i> , 2004 , 95, 2324-2330	0.5	30
16	Nondestructive evaluation of micrometric diamond films with an interferometric picosecond ultrasonics technique. <i>Journal of Applied Physics</i> , 2004 , 95, 4157-4162	2.5	39
15	Investigating the elastic properties of SiC films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 387-389, 302-306	5.3	6
14	Mechanical and physicochemical properties of AlN thin films obtained by pulsed laser deposition. <i>Superlattices and Microstructures</i> , 2004 , 36, 409-416	2.8	7

13	Elastic properties of ultrathin permalloy/alumina multilayer films using picosecond ultrasonics and Brillouin light scattering. <i>Physical Review B</i> , 2004 , 70,	3.3	53
12	Elastic Properties of Zinc Blende MnTe. <i>Acta Physica Polonica A</i> , 2004 , 106, 239-247	0.6	12
11	Brillouin light scattering study of Langmuir-Blodgett films: Elastic properties versus thickness. <i>Journal of Applied Physics</i> , 2003 , 94, 3606-3611	2.5	
10	Mechanical characterizations of diamond carbon films made by PACVD. <i>Surface and Coatings Technology</i> , 2002 , 151-152, 170-174	4.4	5
9	Surface and bulk characterizations of CNx thin films made by r.f. magnetron sputtering. <i>Surface and Coatings Technology</i> , 2002 , 151-152, 184-188	4.4	6
8	Experimental evidence for the role of supersaturated interfacial alloys on the shear elastic softening of Ni/Mo superlattices. <i>Physical Review B</i> , 2002 , 65,	3.3	17
7	Mechanical properties of diamond films: A comparative study of polycrystalline and smooth fine-grained diamonds by Brillouin light scattering. <i>Journal of Applied Physics</i> , 2001 , 90, 3771-3779	2.5	64
6	Brillouin scattering investigation of elastic properties of Cu ₃ Mo solid solution thin films. <i>Journal of Applied Physics</i> , 2001 , 90, 756-762	2.5	36
5	Hardness and elasticity in cubic ruthenium dioxide. <i>Applied Physics Letters</i> , 2001 , 79, 2169-2171	3.4	35
4	Surface acoustic waves in the GHz range generated by periodically patterned metallic stripes illuminated by an ultrashort laser pulse. <i>Journal of the Acoustical Society of America</i> , 2001 , 110, 1943-9	2.2	34
3	Structural and Elastic Response of Mo/Ni Multilayers to Ion Irradiation. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 615, 871		1
2	Brillouin scattering from the icosahedral quasicrystal Al _{70.4} Mn _{8.4} Pd _{21.2} . <i>Solid State Communications</i> , 1998 , 106, 459-461	1.6	7
1	Brillouin scattering in ultrathin permalloy films: monolayers and multilayers with alumina interfaces. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 165, 428-430	2.8	6