

# Ph Djmia

## List of Publications by Citations

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84  
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89  
ext. papers

1,514  
ext. citations

3.5  
avg, IF

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L-index

#	Paper	IF	Citations
84	Elastic and plastic properties of as-cast equimolar TiHfZrTaNb high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 654, 30-38	5.3	103
83	Extrinsic mechanical size effects in thin ZrNi metallic glass films. <i>Acta Materialia</i> , <b>2015</b> , 90, 232-241	8.4	79
82	On the microstructure and physical properties of untreated raffia textilis fiber. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2009</b> , 40, 418-422	8.4	79
81	Structure, phase stability and elastic properties in the Ti <sub>1-x</sub> Zr <sub>x</sub> N thin-film system: Experimental and computational studies. <i>Acta Materialia</i> , <b>2012</b> , 60, 5601-5614	8.4	67
80	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> , <b>2001</b> , 90, 3771-3779	2.5	64
79	Elastic properties of ultrathin permalloy/alumina multilayer films using picosecond ultrasonics and Brillouin light scattering. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	53
78	Spin-wave modes in Ni nanorod arrays studied by Brillouin light scattering. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	40
77	Nondestructive evaluation of micrometric diamond films with an interferometric picosecond ultrasonics technique. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 4157-4162	2.5	39
76	Defects and magnetic properties in Mn-implanted 3C-SiC epilayer on Si(100): Experiments and first-principles calculations. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	38
75	Electronic structure and mechanical properties of ternary ZrTaN alloys studied by ab initio calculations and thin-film growth experiments. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	37
74	Brillouin scattering investigation of elastic properties of CuMo solid solution thin films. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 756-762	2.5	36
73	Elastic anisotropy of polycrystalline Au films: Modeling and respective contributions of X-ray diffraction, nanoindentation and Brillouin light scattering. <i>Acta Materialia</i> , <b>2010</b> , 58, 4998-5008	8.4	35
72	Hardness and elasticity in cubic ruthenium dioxide. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 2169-2171	3.4	35
71	Structural and elastic properties of ternary metal nitrides Ti <sub>x</sub> Ta <sub>1-x</sub> N alloys: First-principles calculations versus experiments. <i>Surface and Coatings Technology</i> , <b>2013</b> , 215, 199-208	4.4	34
70	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> , <b>2001</b> , 110, 1943-9	2.2	34
69	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> , <b>2014</b> , 257, 129-137	4.4	33
68	Elastic-strain distribution in metallic film-polymer substrate composites. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 041905	3.4	31

67	Elastic properties of SiC films by Brillouin light scattering. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 2324-2330.	5	30
66	Effects of Alkali Treatment on the Microstructure, Composition, and Properties of the Raffia textilis Fiber. <i>BioResources</i> , <b>2013</b> , 8,	1.3	28
65	Exploring the mechanical size effects in Zr <sub>65</sub> Ni <sub>35</sub> thin film metallic glasses. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, S90-S92	5.7	23
64	Ab initio calculation of the elastic properties and the lattice dynamics of the Zn <sub>x</sub> Cd <sub>1-x</sub> Se alloy. <i>Semiconductor Science and Technology</i> , <b>2009</b> , 24, 045005	1.8	23
63	Reactive sputter deposition of CoCrCuFeNi in nitrogen/argon mixtures. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 769, 881-888	5.7	22
62	The nanostructure and mechanical properties of nanocomposite Nb <sub>x</sub> -CoCrCuFeNi thin films. <i>Scripta Materialia</i> , <b>2017</b> , 139, 155-158	5.6	22
61	Structural-elastic relationships of Zr-TL (TL = Cu, Co, Ni) thin films metallic glasses. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 707, 126-131	5.7	20
60	Experimental evidence for the role of supersaturated interfacial alloys on the shear elastic softening of Ni/Mo superlattices. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	17
59	Longitudinal sound velocities, elastic anisotropy, and phase transition of high-pressure cubic H <sub>2</sub> O ice to 82 GPa. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	16
58	Brillouin light scattering observation of the transition from the superparamagnetic to the superferromagnetic state in nanogranular (SiO <sub>2</sub> )Co films. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 093912	2.5	16
57	Lattice instability and elastic response of metastable Mo <sub>1-x</sub> Si <sub>x</sub> thin films. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	15
56	Large influence of vacancies on the elastic constants of cubic epitaxial tantalum nitride layers grown by reactive magnetron sputtering. <i>Acta Materialia</i> , <b>2020</b> , 184, 254-266	8.4	15
55	Novel class of nanostructured metallic glass films with superior and tunable mechanical properties. <i>Acta Materialia</i> , <b>2021</b> , 213, 116955	8.4	15
54	Ab initio calculation of the lattice dynamics of the Boron group-V compounds under high pressure. <i>High Pressure Research</i> , <b>2007</b> , 27, 269-277	1.6	14
53	Strain, interdiffusion, and microstructural evolution under ion irradiation in Ni(111)/Mo(110) multilayers: Interdependence with elastic properties. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	14
52	Impurity-controlled film growth and elastic properties of CoCrCuFeNi thin films. <i>Surface and Coatings Technology</i> , <b>2017</b> , 315, 475-483	4.4	13
51	THEORETICAL INVESTIGATION OF THE ELASTIC PROPERTIES AND LATTICE DYNAMICS OF THE Mg <sub>x</sub> Se <sub>1-x</sub> ALLOY. <i>Modern Physics Letters B</i> , <b>2007</b> , 21, 249-259	1.6	13
50	Structural and elastic properties of single-crystal and polycrystalline Ti <sub>1-x</sub> Zr <sub>x</sub> N alloys: A computational study. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S138-S142	5.7	12

49	Ab initio calculation of the elastic properties and the lattice dynamics of the AgBr <sub>1-x</sub> Cl <sub>x</sub> alloy. <i>Computational Materials Science</i> , <b>2009</b> , 47, 308-313	3.2	12
48	Elastic Properties of Zinc Blende MnTe. <i>Acta Physica Polonica A</i> , <b>2004</b> , 106, 239-247	0.6	12
47	Elastic properties of Hf and Ta tantalum thin films. <i>Thin Solid Films</i> , <b>2019</b> , 688, 137403	2.2	11
46	Elasticity and lattice vibrational properties of transparent polycrystalline yttrium-aluminium garnet: Experiments and pair potential calculations. <i>Journal of the European Ceramic Society</i> , <b>2007</b> , 27, 4719-4725	6	11
45	Elastic properties of single crystal diamond made by CVD. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 962-965	3.5	10
44	Magnetic excitation in weak stripe domains: Ferromagnetic resonance and Brillouin light scattering studies. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 072107	0.3	8
43	Setup for high-temperature surface Brillouin light scattering: Application to opaque thin films and coatings. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 023903	1.7	7
42	Structure, electrical conductivity, critical superconducting temperature and mechanical properties of TiN <sub>x</sub> O <sub>y</sub> thin films. <i>Surface and Coatings Technology</i> , <b>2013</b> , 237, 196-204	4.4	7
41	Phase transition signature on elastic constants in Al <sub>1-x</sub> Cr <sub>x</sub> N <sub>y</sub> ternary alloys thin films. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 041601	3.4	7
40	Brillouin scattering from the icosahedral quasicrystal Al <sub>70.4</sub> Mn <sub>8.4</sub> Pd <sub>21.2</sub> . <i>Solid State Communications</i> , <b>1998</b> , 106, 459-461	1.6	7
39	High-intensity Brillouin light scattering by spin waves in a permalloy film under microwave resonance pumping. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 103905	2.5	7
38	Mechanical and physicochemical properties of AlN thin films obtained by pulsed laser deposition. <i>Superlattices and Microstructures</i> , <b>2004</b> , 36, 409-416	2.8	7
37	Characterization of elastomeric scaffolds developed for tissue engineering applications by compression and nanoindentation tests, -Raman and -Brillouin spectroscopies. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 1649-1659	3.5	7
36	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> , <b>2020</b> , 38, 053401	2.9	6
35	Elastic properties of metastable Mo <sub>1-x</sub> Si <sub>x</sub> alloy thin films: A Brillouin light scattering study. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 1824-1829	4.4	6
34	Brillouin scattering in ultrathin permalloy films: monolayers and multilayers with alumina interfaces. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1997</b> , 165, 428-430	2.8	6
33	Investigating the elastic properties of FeC films. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2004</b> , 387-389, 302-306	5.3	6
32	Surface and bulk characterizations of CN <sub>x</sub> thin films made by r.f. magnetron sputtering. <i>Surface and Coatings Technology</i> , <b>2002</b> , 151-152, 184-188	4.4	6

31	Characterizations of CNx thin films made by ionized physical vapor deposition. <i>Thin Solid Films</i> , <b>2005</b> , 482, 192-196	2.2	6
30	Ab initio calculation of the elastic properties and the lattice dynamics of the AlAs x Sb <sub>1-x</sub> alloy under pressure. <i>High Pressure Research</i> , <b>2011</b> , 31, 310-324	1.6	5
29	Mechanical characterizations of diamond carbon films made by PACVD. <i>Surface and Coatings Technology</i> , <b>2002</b> , 151-152, 170-174	4.4	5
28	Elastic anisotropy and single-crystal moduli of solid argon up to 64 GPa from time-domain Brillouin scattering. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	4
27	Structural and elastic properties of ternary silicides ScTSi (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> , <b>2015</b> , 252, 2769-2777	1.3	4
26	Magnetic excitations in (SiO <sub>2</sub> )Co nano-composite films: Brillouin light scattering study. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 876-879	2.8	4
25	Mechanical properties of CoCrCuFeNi multi-principal element alloy thin films on Kapton substrates. <i>Surface and Coatings Technology</i> , <b>2020</b> , 402, 126474	4.4	4
24	Annealing effect on elastic, magnetic and magnetoelastic properties of CoFeB thin films on polymer substrate. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 455002	3	3
23	Ab-initio calculations of the photoelastic constants of the cubic SiC polytype. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 454, 012060	0.3	3
22	Electromechanical properties of single domain PZN <sub>0.98</sub> PT measured by three different methods. <i>Solid State Sciences</i> , <b>2010</b> , 12, 298-301	3.4	3
21	Prediction on temperature dependent elastic constants of fcc metal Al by AIMD and QHA. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 45, 92-97	9.1	2
20	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> , <b>2018</b> , 3, 385-388	16.7	2
19	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> , <b>2007</b> , 92, 012170	0.3	2
18	Mechanical properties of elementary layers involved in a multilayer optical stack by photon-acoustic phonon interaction approaches. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 125307	2.5	2
17	Sound Velocities and Elastic Moduli of Phases I and V of Silicon at High Pressures. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1900173	2.5	1
16	First-principles calculation of the structural and elastic properties of ternary metal nitrides TaxMo <sub>1-x</sub> N and TaxW <sub>1-x</sub> N. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 640, 012022	0.3	1
15	Brillouin scattering of light by spin waves in ferromagnetic nanorods. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 3406-3409	2.8	1
14	AB INITIO CALCULATION OF THE LATTICE DYNAMICS OF THE ZnSe <sub>1-x</sub> Te <sub>x</sub> ALLOY. <i>Modern Physics Letters B</i> , <b>2009</b> , 23, 3453-3462	1.6	1

13	Weak stripe domains vibrations description using Thiele equation. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 042027	0.3	1
12	Brillouin light scattering in ferromagnetic single layers: hysteresis loop and backward geometry. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 3244-3248		1
11	Structural and Elastic Response of Mo/Ni Multilayers to Ion Irradiation. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 615, 871		1
10	Dynamical Viscoelastic Properties of Poly(Ester-Urethane) Biomaterial for Scaffold Applications. <i>Lecture Notes in Mechanical Engineering</i> , <b>2020</b> , 1-8	0.4	1
9	Mechanical properties of Li <sub>2</sub> MoO <sub>4</sub> single crystals. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 175102	2.5	1
8	Effect of composition and nanostructure on the mechanical properties and thermal stability of Zr <sub>100-x</sub> Cu <sub>x</sub> thin film metallic glasses. <i>Materials and Design</i> , <b>2022</b> , 110752	8.1	1
7	Thermal, electrical, and mechanical properties of hard nitrogen-alloyed Cr thin films deposited by magnetron sputtering. <i>Surface and Coatings Technology</i> , <b>2022</b> , 128575	4.4	1
6	Elastic properties assessment in the multiferroic BiFeO <sub>3</sub> by pump and probe method. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 062902	3.4	0
5	Influence of elastic anisotropy on measured sound velocities and elastic moduli of polycrystalline cubic solids. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 035903	2.5	0
4	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> , <b>2020</b> , 30, 105411	1.2	
3	Peculiar effective elastic anisotropy of nanometric multilayers studied by surface Brillouin scattering. <i>Superlattices and Microstructures</i> , <b>2015</b> , 88, 551-560	2.8	
2	X-ray strain analysis in thin films enhanced by 2D detection. <i>EPJ Web of Conferences</i> , <b>2010</b> , 6, 26008	0.3	
1	Brillouin light scattering study of Langmuir-Blodgett films: Elastic properties versus thickness. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 3606-3611	2.5	