

Jeff De Hosson

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.

645
papers

17,309
citations

66
h-index

101
g-index

684
ext. papers

18,761
ext. citations

4.1
avg, IF

7
L-index

#	Paper	IF	Citations
645	Microstructure and Mechanical Properties of Laser Additive Manufactured H13 Tool Steel. <i>Metals</i> , 2022 , 12, 243	2.3	1
644	Protective films on complex substrates of thermoplastic and cellular elastomers: Prospective applications to rubber, nylon and cork. <i>Surface and Coatings Technology</i> , 2022 , 128405	4.4	1
643	Using X-Ray Scattering to Elucidate the Microstructural Instability of 3D Bicontinuous Nanoporous Metal Scaffolds for Use in an Aperiodic 3D Tricontinuous Conductor-Insulator-Conductor Nanocapacitor. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11721-11731	9.5	7
642	Temperature-Adaptive Ultralubricity of a WS ₂ /a-C Nanocomposite Coating: Performance from Room Temperature up to 500 °C. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28843-28854	9.5	5
641	Self-healing WS ₂ tribofilms: An in-situ appraisal of mechanisms. <i>Scripta Materialia</i> , 2021 , 204, 114124	5.6	5
640	Strengthening mechanisms in high entropy alloys: Fundamental issues. <i>Scripta Materialia</i> , 2020 , 187, 148-156	5.6	72
639	Depth Profile Analysis of Thin Oxide Layers on Polycrystalline Fe-Cr. <i>Microscopy and Microanalysis</i> , 2020 , 26, 112-119	0.5	1
638	In Situ Digital Image Correlation Observations of Laser Forming. <i>Metals</i> , 2020 , 10, 17	2.3	4
637	High Entropy Alloys: Ready to Set Sail?. <i>Metals</i> , 2020 , 10, 194	2.3	10
636	Smectite clay pillared with copper complexed polyhedral oligosilsesquioxane for adsorption of chloridazon and its metabolites. <i>Environmental Science: Nano</i> , 2020 , 7, 424-436	7.1	8
635	On the Self-Repair of WS ₂ /a-C Tribocoating. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1900938	4.6	3
634	Defect ferromagnetism induced by lower valence cation doping: Li-doped SnO nanoparticles.. <i>RSC Advances</i> , 2020 , 10, 26342-26348	3.7	5
633	High entropy alloys: Key issues under passionate debate. <i>Scripta Materialia</i> , 2020 , 188, 54-58	5.6	75
632	Vapour confinement as a strategy to fabricate metal and bimetallic nanostructures. <i>Nanoscale Advances</i> , 2020 , 2, 4251-4260	5.1	1
631	Effect of Quench Polish Quench Nitriding Temperature on the Microstructure and Wear Resistance of SAF2906 Duplex Stainless Steel. <i>Metals</i> , 2019 , 9, 848	2.3	4
630	Pt/ZrO Prepared by Atomic Trapping: An Efficient Catalyst for the Conversion of Glycerol to Lactic Acid with Concomitant Transfer Hydrogenation of Cyclohexene. <i>ACS Catalysis</i> , 2019 , 9, 9953-9963	13.1	24
629	Size-dependent ion-induced densification of nanoporous gold. <i>Scripta Materialia</i> , 2019 , 164, 17-20	5.6	11

628	Defect ferromagnetism in SnO:Zn hierarchical nanostructures: correlation between structural, electronic and magnetic properties.. <i>RSC Advances</i> , 2019 , 9, 4082-4091	3.7	5
627	Concentrated Multi-nozzle Electrospinning. <i>Fibers and Polymers</i> , 2019 , 20, 1180-1186	2	6
626	In Situ High-Temperature EBSD and 3D Phase Field Studies of the Austenite-Ferrite Transformation in a Medium Mn Steel. <i>Microscopy and Microanalysis</i> , 2019 , 25, 639-655	0.5	9
625	Bending of nanoporous thin films under ion radiation. <i>Thin Solid Films</i> , 2019 , 688, 137419	2.2	4
624	Micromechanical evaluation of DP1000-GI dual-phase high-strength steel resistance spot weld. <i>Journal of Materials Science</i> , 2019 , 54, 1703-1715	4.3	5
623	Self-healing of a pre-notched WS ₂ /a-C coating. <i>Materials Research Letters</i> , 2019 , 7, 103-109	7.4	7
622	Three-dimensional micron-porous graphene foams for lightweight current collectors of lithium-sulfur batteries. <i>Carbon</i> , 2019 , 144, 713-723	10.4	43
621	On the S/W stoichiometry and triboperformance of WS _x C(H) coatings deposited by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2019 , 365, 41-51	4.4	15
620	On the fabrication of micro- and nano-sized objects: the role of interstitial clusters. <i>Journal of Materials Science</i> , 2018 , 53, 7822-7833	4.3	7
619	Anomalous precipitation hardening in Al-(1 wt%)Cu thin films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 722, 37-46	5.3	3
618	Template-Free Synthesis of Nanoporous Nickel and Alloys as Binder-Free Current Collectors of Li Ion Batteries. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2206-2218	5.6	17
617	On the mechanism of ion-induced bending of nanostructures. <i>Applied Surface Science</i> , 2018 , 446, 151-158.	5.7	14
616	Recent advances in nanoporous materials for renewable energy resources conversion into fuels. <i>Surface and Coatings Technology</i> , 2018 , 347, 320-336	4.4	20
615	Copper-mediated homogeneous living radical polymerization of acrylamide with waxy potato starch-based macroinitiator. <i>Carbohydrate Polymers</i> , 2018 , 192, 61-68	10.3	10
614	Effect of pulse scheme on the microstructural evolution, residual stress state and mechanical performance of resistance spot welded DP1000-GI steel. <i>Science and Technology of Welding and Joining</i> , 2018 , 23, 649-658	3.7	21
613	Size dependent plasticity and damage response in multiphase body centered cubic high entropy alloys. <i>Acta Materialia</i> , 2018 , 150, 104-116	8.4	50
612	The effect of surface texture on the oxidation behaviour of polycrystalline Fe-Cr. <i>Applied Surface Science</i> , 2018 , 459, 459-467	6.7	10
611	BCC-FCC interfacial effects on plasticity and strengthening mechanisms in high entropy alloys. <i>Acta Materialia</i> , 2018 , 157, 83-95	8.4	68

610	Response of Ti microstructure in mechanical and laser forming processes. <i>Journal of Materials Science</i> , 2018 , 53, 14713-14728	4.3	3
609	Enhanced efficiency of self-healing of Cr ₂ AlC. <i>Materials Letters</i> , 2018 , 227, 51-54	3.3	6
608	Size effects on plasticity in high-entropy alloys. <i>Journal of Materials Research</i> , 2018 , 33, 3055-3076	2.5	30
607	Product shape change by internal stresses. <i>Materials and Design</i> , 2018 , 157, 492-500	8.1	5
606	Local Stress States and Microstructural Damage Response Associated with Deformation Twins in Hexagonal Close Packed Metals. <i>Crystals</i> , 2018 , 8, 1	2.3	73
605	Gaining sight after being blind: A tribute to Jing Zhu. <i>Ultramicroscopy</i> , 2018 , 192, 37-49	3.1	4
604	Low-temperature solid-state growth of three-dimensional bicontinuous nanoporous graphene with tunable porosity for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11405-11415	13	6
603	Instant WS ₂ platelets reorientation of self-adaptive WS ₂ /a-C tribocoating. <i>Materials Letters</i> , 2018 , 229, 64-67	3.3	12
602	Measurement of spatial stress gradients near grain boundaries. <i>Scripta Materialia</i> , 2017 , 136, 11-14	5.6	12
601	Influence of the applied power on the barrier performance of silicon-containing plasma polymer coatings using a hollow cathode-activated PECVD process. <i>Plasma Processes and Polymers</i> , 2017 , 14, 1700016	3.4	3
600	Influence of loading rate on the mechanical performance of metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2017 , 470, 160-167	3.9	11
599	Effect of magnesium aluminum silicate glass on the thermal shock resistance of BN matrix composite ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2669-2678	3.8	11
598	Secondary phases in Al _x CoCrFeNi high-entropy alloys: An in-situ TEM heating study and thermodynamic appraisal. <i>Acta Materialia</i> , 2017 , 131, 206-220	8.4	194
597	Effect of carbon concentration and argon flow rate on the microstructure and triboperformance of magnetron sputtered WS ₂ /a-C coatings. <i>Surface and Coatings Technology</i> , 2017 , 332, 142-152	4.4	20
596	Orientation Relationships in Al _{0.7} CoCrFeNi High-Entropy Alloy. <i>Microscopy and Microanalysis</i> , 2017 , 23, 905-915	0.5	14
595	Interphase boundary motion elucidated through in-situ high temperature electron back-scatter diffraction. <i>Materials and Design</i> , 2017 , 132, 138-147	8.1	7
594	Texture development in direct powder deposition. <i>Journal of Laser Applications</i> , 2017 , 29, 042007	2.1	6
593	Laser surface treatment for enhanced titanium to carbon fiber-reinforced polymer adhesion. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017 , 39, 2917-2924	2	7

592	On the bulk degradation of yttria-stabilized nanocrystalline zirconia dental implant abutments: an electron backscatter diffraction study. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 121	4.5	4
591	Hollow-cathode activated PECVD for the high-rate deposition of permeation barrier films. <i>Surface and Coatings Technology</i> , 2017 , 314, 155-159	4.4	11
590	EXPERIMENTAL DETERMINATION AND THEORETICAL ANALYSIS OF LOCAL RESIDUAL STRESS AT GRAIN SCALE 2017 ,		2
589	Formation of metal F bonds during frictional sliding: Influence of water and applied load. <i>Applied Surface Science</i> , 2016 , 368, 427-434	6.7	6
588	Role of NH ₃ in the Electron-Induced Reactions of Adsorbed and Solid Cisplatin. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4112-4120	3.8	14
587	Wear and Failure Mechanism of PTFE/SiO ₂ /Epoxy Composites. <i>Journal of Tribology</i> , 2016 , 138,	1.8	2
586	Metallic muscles and beyond: nanofoams at work. <i>Journal of Materials Science</i> , 2016 , 51, 615-634	4.3	27
585	On the optimum resolution of transmission-electron backscattered diffraction (t-EBSD). <i>Ultramicroscopy</i> , 2016 , 160, 256-264	3.1	47
584	On the role of the residual stress state in product manufacturing. <i>Materials and Design</i> , 2016 , 105, 375-380		10
583	The fcc-bcc crystallographic orientation relationship in Al _x CoCrFeNi high-entropy alloys. <i>Materials Letters</i> , 2016 , 176, 29-32	3.3	40
582	Additive Manufacturing of High-Entropy Alloys by Laser Processing. <i>Jom</i> , 2016 , 68, 1810-1818	2.1	86
581	A versatile model for the prediction of complex geometry in 3D direct laser deposition. <i>Surface and Coatings Technology</i> , 2016 , 307, 292-300	4.4	22
580	Pressure and temperature induced electrical resistance change in nano-carbon/epoxy composites. <i>Composites Science and Technology</i> , 2015 , 115, 1-8	8.6	39
579	Local residual stress measurements on nitride layers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 636, 476-483	5.3	8
578	On the determination of local residual stress gradients by the slit milling method. <i>Journal of Materials Science</i> , 2015 , 50, 3646-3655	4.3	22
577	Compositional modification of Ni-base alloys for laser-deposition technologies 2015 , 137-162		3
576	Wear and friction performance of PTFE filled epoxy composites with a high concentration of SiO ₂ particles. <i>Wear</i> , 2015 , 322-323, 171-180	3.5	56
575	Calibration-free quantitative surface topography reconstruction in scanning electron microscopy. <i>Ultramicroscopy</i> , 2015 , 148, 31-41	3.1	3

574	Formation of Nanoporous Gold Studied by Transmission Electron Backscatter Diffraction. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1387-1397	0.5	6
573	Structure phases of Fe nanoparticles in vertically aligned multi-walled carbon nanotubes. <i>Journal of Surface Investigation</i> , 2015 , 9, 1044-1055	0.5	2
572	Influence of load on the dry frictional performance of alkyl acrylate copolymer elastomers coated with diamond-like carbon films. <i>Journal of Applied Physics</i> , 2015 , 118, 175302	2.5	5
571	Effect of surface reactions on steel, Al ₂ O ₃ and Si ₃ N ₄ counterparts on their tribological performance with polytetrafluoroethylene filled composites. <i>Applied Surface Science</i> , 2015 , 331, 482-489	6.7	4
570	The influence of processing speed on the properties of laser surface deposits 2015 ,		2
569	TiNi shape memory alloy coated with tungsten: a novel approach for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 1249-55	4.5	17
568	Modification of Cu surface with picosecond laser pulses. <i>Applied Surface Science</i> , 2014 , 303, 118-124	6.7	42
567	Focused helium and neon ion beam induced etching for advanced extreme ultraviolet lithography mask repair. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 021602	1.3	26
566	Multiscale modeling of charge-induced deformation of nanoporous gold structures. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 66, 1-15	5	43
565	Deposition of SiO ₂ nanoparticles in heat exchanger during combustion of biogas. <i>Applied Energy</i> , 2014 , 113, 1141-1148	10.7	20
564	On the deposition and properties of DLC protective coatings on elastomers: A critical review. <i>Surface and Coatings Technology</i> , 2014 , 258, 677-690	4.4	42
563	Evolution of grain structure in deformed metal-polymer laminates. <i>Journal of Materials Science</i> , 2014 , 49, 8335-8342	4.3	
562	Selective functionalization of patterned glass surfaces. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2606-2615	6.15	6
561	In situ bending of layered compounds: The role of anisotropy in Ti ₂ AlC microcantilevers. <i>Scripta Materialia</i> , 2014 , 89, 21-24	5.6	6
560	Gold complexes for focused-electron-beam-induced deposition. <i>Langmuir</i> , 2014 , 30, 12097-105	4	22
559	Deformation of nanoporous nanopillars by ion beam-induced bending. <i>Journal of Materials Science</i> , 2014 , 49, 5598-5605	4.3	18
558	On the control of deposition process for enhanced mechanical properties of nc-TiC/a-C:H coatings with DC magnetron sputtering at low or high ion flux. <i>Surface and Coatings Technology</i> , 2014 , 255, 8-14	4.4	15
557	Tribological properties of nc-TiC/a-C:H coatings prepared by magnetron sputtering at low and high ion bombardment of the growing film. <i>Surface and Coatings Technology</i> , 2014 , 241, 64-73	4.4	11

556	Gyroid nickel nanostructures from diblock copolymer supramolecules. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	1
555	A new methodology to analyze instabilities in SEM imaging. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1625-37	3.7	18
554	FIB-etching of polymer/metal laminates and its effect on mechanical performance. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1826-34	0.5	0
553	Nanopillar fabrication with focused ion beam cutting. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1581-4	0.5	11
552	Microstructural characterization of surface damage through ultra-short laser pulses 2014 ,		1
551	The Prediction of Coating Geometry from Main Processing Parameters in Laser Cladding. <i>Physics Procedia</i> , 2014 , 56, 220-227		43
550	On the localized surface plasmon resonance modes in nanoporous gold films. <i>Journal of Applied Physics</i> , 2014 , 115, 044308	2.5	35
549	Laser-induced periodic surface structures, modeling, experiments, and applications 2014 ,		4
548	Capturing the stochastic mechanical behavior of micro and nanopillars. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 597, 89-94	5.3	18
547	On the geometry of coating layers formed by overlap. <i>Surface and Coatings Technology</i> , 2014 , 242, 54-61	4.4	46
546	High throughput deposition of hydrogenated amorphous carbon coatings on rubber with expanding thermal plasma. <i>Surface and Coatings Technology</i> , 2014 , 245, 74-83	4.4	9
545	Microstructure and Phase Formation in a Rapidly Solidified Laser-Deposited Ni-Cr-B-Si-C Hardfacing Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 878-892	3.2	31
544	Local delamination on heavily deformed polymer/metal interfaces: evidence from microscopy. <i>Journal of Materials Science</i> , 2014 , 49, 691-700	4.3	5
543	Structural changes in polytetrafluoroethylene molecular chains upon sliding against steel. <i>Journal of Materials Science</i> , 2014 , 49, 1484-1493	4.3	24
542	Tribological Behavior of TiC/a-C:H-Coated and Uncoated Steels Sliding Against Phenol-Formaldehyde Composite Reinforced with PTFE and Glass Fibers. <i>Tribology Letters</i> , 2013 , 52, 123-135	2.8	9
541	Deformation mechanism of aluminum-magnesium alloys at elevated temperatures. <i>Journal of Materials Science</i> , 2013 , 48, 7399-7408	4.3	17
540	Phase formation and properties of vanadium-modified Ni-Cr-B-Si-C laser-deposited coatings. <i>Journal of Materials Science</i> , 2013 , 48, 3315-3326	4.3	12
539	Microscopic characterisation of suspended graphene grown by chemical vapour deposition. <i>Nanoscale</i> , 2013 , 5, 9057-61	7.7	10

538	Formation of chain aggregates in external electric field. <i>Chemical Physics Letters</i> , 2013 , 570, 104-108	2.5	
537	Flexible diamond-like carbon film coated on rubber. <i>Progress in Organic Coatings</i> , 2013 , 76, 1773-1778	4.8	12
536	Tantalum-modified Stellite 6 thick coatings: microstructure and mechanical performance. <i>Journal of Materials Science</i> , 2013 , 48, 140-149	4.3	1
535	Microstructural characterization of Co-based coating deposited by low power pulse laser cladding. <i>Journal of Materials Science</i> , 2013 , 48, 2714-2723	4.3	31
534	Toughening mechanism for NiCrBSiC laser deposited coatings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 582, 305-315	5.3	35
533	Nanoporous silver as electrochemical actuator. <i>Scripta Materialia</i> , 2013 , 69, 195-198	5.6	72
532	Microstructural design of hardfacing NiCrBSiC alloys. <i>Acta Materialia</i> , 2013 , 61, 6061-6070	8.4	31
531	Effects of the Alloy Composition on Phase Constitution and Properties of Laser Deposited Ni-Cr-B-Si Coatings. <i>Physics Procedia</i> , 2013 , 41, 302-311		48
530	Oxide-scale growth on Cr ₂ AlC ceramic and its consequence for self-healing. <i>Scripta Materialia</i> , 2013 , 69, 203-206	5.6	45
529	Structure Properties of the YFe_{11}Mo Intermetallic Compound. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 1149-1152	2	1
528	Electron microscopy characterization of Ni-Cr-B-Si-C laser deposited coatings. <i>Microscopy and Microanalysis</i> , 2013 , 19, 120-31	0.5	38
527	Metallic muscles at work: high rate actuation in nanoporous gold/polyaniline composites. <i>ACS Nano</i> , 2013 , 7, 4299-306	16.7	86
526	Fibrous hydroxyapatite/carbon nanotube composites by chemical vapor deposition: In situ fabrication, structural and morphological characterization. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 457-464	3.1	12
525	Advances in Laser Surface Engineering: Tackling the Cracking Problem in Laser-Deposited Ni-Cr-B-Si-C Alloys. <i>Jom</i> , 2013 , 65, 741-748	2.1	8
524	Healing performance of Ti ₂ AlC ceramic studied with in situ microcantilever bending. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 383-391	6	27
523	Electrochromic artificial muscles based on nanoporous metal-polymer composites. <i>Applied Physics Letters</i> , 2013 , 103, 193101	3.4	27
522	Focused electron beam induced processing and the effect of substrate thickness revisited. <i>Nanotechnology</i> , 2013 , 24, 345301	3.4	12
521	Atomistic modelling of charge-induced deformation of gold nanowires. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013 , 21, 055024	2	6

520	On the YFe11Mo intermetallic characterization. <i>Microscopy and Microanalysis</i> , 2013 , 19, 135-136	0.5	
519	Microstructural characterization of long-period stacking ordered phases in Mg97Zn1Y2 (at.%) alloy. <i>Microscopy and Microanalysis</i> , 2013 , 19, 1575-80	0.5	15
518	The role of electron-stimulated desorption in focused electron beam induced deposition. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 474-80	3	21
517	Statistical analysis of SEM image noise 2013 ,		2
516	Dilution effects in laser cladding of NiCrBSiC hardfacing alloys. <i>Materials Letters</i> , 2012 , 84, 69-72	3.3	100
515	Elimination of Start/Stop defects in laser cladding. <i>Surface and Coatings Technology</i> , 2012 , 206, 2403-2409	4	38
514	Microstructure and tribological performance of diamond-like carbon films deposited on hydrogenated rubber. <i>Thin Solid Films</i> , 2012 , 524, 218-223	2.2	17
513	Molecule-by-molecule writing using a focused electron beam. <i>ACS Nano</i> , 2012 , 6, 10076-81	16.7	48
512	Enhanced strain in functional nanoporous gold with a dual microscopic length scale structure. <i>ACS Nano</i> , 2012 , 6, 3734-44	16.7	97
511	Selective functionalization of tailored nanostructures. <i>ACS Nano</i> , 2012 , 6, 9214-20	16.7	11
510	Actuating and sensing properties of nanoporous gold. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 4951-5	1.3	40
509	Flexible diamond-like carbon films on rubber: On the origin of self-acting segmentation and film flexibility. <i>Acta Materialia</i> , 2012 , 60, 5526-5535	8.4	26
508	Flexible diamond-like carbon films on rubber: Friction and the effect of viscoelastic deformation of rubber substrates. <i>Acta Materialia</i> , 2012 , 60, 7216-7225	8.4	21
507	Effect of Ta on the microstructure and hardness of Stellite 6 coating deposited by low power pulse laser treatments. <i>Surface and Coatings Technology</i> , 2012 , 213, 278-284	4.4	21
506	Apparently homogeneous but intrinsically intermittent flow of taper-free metallic glass nanopillars. <i>Scripta Materialia</i> , 2012 , 67, 947-950	5.6	22
505	On the evolution of nanocluster size distribution in a nanocluster aggregation source. <i>Journal of Applied Physics</i> , 2012 , 111, 124326	2.5	18
504	Fine-tuning the feature size of nanoporous silver. <i>CrystEngComm</i> , 2012 , 14, 5402	3.3	48
503	In situ Transmission Electron Microscopy on Metals 2012 , 1099-1151		1

502	Direct synthesis of metal nanoparticles with tunable porosity. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4588		25
501	Laser-induced periodic surface structures: Fingerprints of light localization. <i>Physical Review B</i> , 2012 , 85,	3.3	101
500	Influence of Plasma Treatments on the Frictional Performance of Rubbers. <i>Tribology Letters</i> , 2012 , 47, 303-311	2.8	12
499	Intrinsic and extrinsic size effects in the deformation of metallic glass nanopillars. <i>Acta Materialia</i> , 2012 , 60, 889-898	8.4	131
498	Relation between microstructure and adhesion of hot dip galvanized zinc coatings on dual phase steel. <i>Acta Materialia</i> , 2012 , 60, 2973-2981	8.4	90
497	Growth of fractal structures in flames with silicon admixture. <i>Europhysics Letters</i> , 2012 , 98, 66005	1.6	5
496	Effect of relative humidity on crack propagation in barrier films for flexible electronics. <i>Journal of Applied Physics</i> , 2012 , 112, 083520	2.5	11
495	Electro-Responsive Polystyrene Shape Memory Polymer Nanocomposites. <i>Nanoscience and Nanotechnology Letters</i> , 2012 , 4, 814-820	0.8	24
494	On the nature of the coefficient of friction of diamond-like carbon films deposited on rubber. <i>Journal of Applied Physics</i> , 2012 , 111, 114902	2.5	16
493	Supramolecular route to well-ordered metal nanofoams. <i>ACS Nano</i> , 2011 , 5, 6339-48	16.7	85
492	Performance of diamond-like carbon-protected rubber under cyclic friction. II. Influence of substrate viscoelasticity on the friction evolution. <i>Journal of Applied Physics</i> , 2011 , 110, 124907	2.5	11
491	On the surface topography of ultrashort laser pulse treated steel surfaces. <i>Applied Surface Science</i> , 2011 , 258, 1555-1560	6.7	34
490	Performance of diamond-like carbon-protected rubber under cyclic friction. I. Influence of substrate viscoelasticity on the depth evolution. <i>Journal of Applied Physics</i> , 2011 , 110, 124906	2.5	11
489	Direct measurement of intrinsic critical strain and internal strain in barrier films. <i>Journal of Applied Physics</i> , 2011 , 110, 044907	2.5	9
488	Microstructure and chemical bonding of DLC films deposited on ACM rubber by PACVD. <i>Surface and Coatings Technology</i> , 2011 , 205, S75-S78	4.4	22
487	High temperature healing of Ti ₂ AlC: On the origin of inhomogeneous oxide scale. <i>Scripta Materialia</i> , 2011 , 65, 135-138	5.6	74
486	Comments on Microstructural evolution during high-temperature oxidation of Ti ₂ AlC ceramics□ <i>Scripta Materialia</i> , 2011 , 65, 930-932	5.6	8
485	TEM study of the initial oxide scales of Ti ₂ AlC. <i>Acta Materialia</i> , 2011 , 59, 5216-5223	8.4	45

484	On the specific surface area of nanoporous materials. <i>Acta Materialia</i> , 2011 , 59, 7488-7497	8.4	84
483	Microstructural characterization of AISI 431 martensitic stainless steel laser-deposited coatings. <i>Journal of Materials Science</i> , 2011 , 46, 3405-3414	4.3	69
482	Influence of Surface Roughness on the Transfer Film Formation and Frictional Behavior of TiC/a-C Nanocomposite Coatings. <i>Tribology Letters</i> , 2011 , 41, 97-101	2.8	27
481	Fixation of osteochondral fragments in the human knee using Meniscus Arrows. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2011 , 19, 183-8	5.5	18
480	Tribological performance of DLC films deposited on ACM rubber by PACVD. <i>Surface and Coatings Technology</i> , 2011 , 205, 4838-4843	4.4	21
479	Ultra-high temperature ablation behavior of Ti ₂ AlC ceramics under an oxyacetylene flame. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 855-862	6	52
478	Plasticity in small-sized metallic systems: Intrinsic versus extrinsic size effect. <i>Progress in Materials Science</i> , 2011 , 56, 654-724	42.2	1272
477	The effect of cladding speed on phase constitution and properties of AISI 431 stainless steel laser deposited coatings. <i>Surface and Coatings Technology</i> , 2011 , 205, 5235-5239	4.4	53
476	Microstructural and frictional control of diamond-like carbon films deposited on acrylic rubber by plasma assisted chemical vapor deposition. <i>Thin Solid Films</i> , 2011 , 519, 2213-2217	2.2	19
475	Nanometer-scale lithography on microscopically clean graphene. <i>Nanotechnology</i> , 2011 , 22, 505303	3.4	20
474	Charging effects during focused electron beam induced deposition of silicon oxide. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 06FD01	1.3	7
473	Influence of strain on the electronic structure of the TbMnO ₃ /SrTiO ₃ epitaxial interface. <i>Applied Physics Letters</i> , 2011 , 99, 222902	3.4	8
472	Intrinsic size effects in the mechanical response of taper-free nanopillars of metallic glass. <i>Physical Review B</i> , 2011 , 83,	3.3	76
471	In situ compression study of taper-free metallic glass nanopillars. <i>Applied Physics Letters</i> , 2011 , 98, 233104	3.4	23
470	Reversible strain by physisorption in nanoporous gold. <i>Applied Physics Letters</i> , 2011 , 99, 083104	3.4	47
469	Pulsed DC sputtered DLC based nanocomposite films: controlling growth dynamics, microstructure and frictional properties. <i>Materials Technology</i> , 2011 , 26, 15-19	2.1	5
468	Evolution of microstructure and properties in laser cladding of a Ni-Cr-B-Si hardfacing alloy 2011 ,		7
467	Tunable self-organization of nanocomposite multilayers. <i>Applied Physics Letters</i> , 2010 , 96, 073103	3.4	26

466	Dynamic smoothing of nanocomposite films. <i>Applied Physics Letters</i> , 2010 , 96, 151910	3.4	7
465	On the evolution of film roughness during magnetron sputtering deposition. <i>Journal of Applied Physics</i> , 2010 , 108, 094330	2.5	17
464	A Versatile Route for the Synthesis of Single Crystalline Oxide Nanorods: Growth Behavior and Field Emission Characteristics. <i>Crystal Growth and Design</i> , 2010 , 10, 2585-2590	3.5	17
463	Thermo-mechanical properties of polystyrene-based shape memory nanocomposites. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3442		76
462	Growth rate determination through automated TEM image analysis: crystallization studies of doped SbTe phase-change thin films. <i>Microscopy and Microanalysis</i> , 2010 , 16, 291-9	0.5	8
461	A statistical physics consideration about the strength of small size metallic glass pillars. <i>Journal of Physics: Conference Series</i> , 2010 , 240, 012156	0.3	2
460	Wear mechanisms and friction parameters for sliding wear of micron-scale polysilicon sidewalls. <i>Sensors and Actuators A: Physical</i> , 2010 , 163, 373-382	3.9	12
459	Flexible protective diamond-like carbon film on rubber. <i>Scripta Materialia</i> , 2010 , 63, 649-652	5.6	25
458	Adhesion at Al-hydroxide-polymer interfaces: Influence of chemistry and evidence for microscopic self-pinning. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5637-5647	5.3	18
457	Deposition and characterization of hydrogenated diamond-like carbon thin films on rubber seals. <i>Thin Solid Films</i> , 2010 , 518, S42-S45	2.2	16
456	Synthesis of ultra-smooth and ultra-low friction DLC based nanocomposite films on rough substrates. <i>Thin Solid Films</i> , 2010 , 519, 1618-1622	2.2	9
455	Effect of process parameters on mechanical and tribological performance of pulsed-DC sputtered TiC/a-C:H nanocomposite films. <i>Surface and Coatings Technology</i> , 2010 , 205, 2633-2642	4.4	36
454	Influence of hardness and roughness on the tribological performance of TiC/a-C nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2010 , 205, 2624-2632	4.4	36
453	Effects of size on the mechanical response of metallic glasses investigated through in situ TEM bending and compression experiments. <i>Acta Materialia</i> , 2010 , 58, 189-200	8.4	226
452	Microstructure and properties of laser clad coatings studied by orientation imaging microscopy. <i>Acta Materialia</i> , 2010 , 58, 6763-6772	8.4	66
451	Influence of dielectric properties on van der Waals/Casimir forces in solid-liquid systems. <i>Physical Review B</i> , 2009 , 79,	3.3	30
450	On the dynamic roughening transition in nanocomposite film growth. <i>Applied Physics Letters</i> , 2009 , 95, 223102	3.4	15
449	Strength of submicrometer diameter pillars of metallic glasses investigated with in situ transmission electron microscopy. <i>Philosophical Magazine Letters</i> , 2009 , 89, 633-640	1	21

448	Piezoelectric properties of PbTiO ₃ thin films characterized with piezoresponse force and high resolution transmission electron microscopy. <i>Journal of Applied Physics</i> , 2009 , 105, 064106	2.5	5
447	Surface roughness evolution of nanocomposite thin films. <i>Journal of Applied Physics</i> , 2009 , 105, 013523	2.5	14
446	Fundamental and applied aspects of laser surface engineering. <i>International Journal of Materials Research</i> , 2009 , 100, 1343-1360	0.5	17
445	In-situ TEM investigation of deformation behavior of metallic glass pillars. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1185, 106		
444	Piezoresponse force microscopy characterization of PTO thin films. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1186, 19		
443	Nanoscale deformation mechanism of TiC/a-C nanocomposite thin films. <i>Journal of Applied Physics</i> , 2009 , 105, 114314	2.5	26
442	Epitaxial TbMnO(3) thin films on SrTiO(3) substrates: a structural study. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 182001	1.8	60
441	Gas permeation and temperature effects in laser-induced delamination. <i>Progress in Organic Coatings</i> , 2009 , 64, 210-215	4.8	2
440	On the quantification of unbound hydrogen in diamond-like carbon-based thin films. <i>Scripta Materialia</i> , 2009 , 61, 320-323	5.6	5
439	Advances in transmission electron microscopy: in situ straining and in situ compression experiments on metallic glasses. <i>Microscopy Research and Technique</i> , 2009 , 72, 250-60	2.8	32
438	Laser engineered surfaces from glass forming alloy powder precursors: Microstructure and wear. <i>Surface and Coatings Technology</i> , 2009 , 203, 1833-1843	4.4	40
437	Influence of powder particle injection velocity on the microstructure of Al ₂ Si/SiCp coatings produced by laser cladding. <i>Surface and Coatings Technology</i> , 2009 , 204, 285-290	4.4	29
436	Localized electronic states near dislocations in transition metals. <i>International Journal of Quantum Chemistry</i> , 2009 , 14, 469-482	2.1	1
435	Mechanical properties of attapulgite clay reinforced polyurethane shape-memory nanocomposites. <i>European Polymer Journal</i> , 2009 , 45, 1904-1911	5.2	98
434	Adhesion improvement of hydrogenated diamond-like carbon thin films by pre-deposition plasma treatment of rubber substrate. <i>Surface and Coatings Technology</i> , 2009 , 203, 1964-1970	4.4	43
433	In-situ strain observation in high power laser cladding. <i>Surface and Coatings Technology</i> , 2009 , 203, 3189-3196	4.4	40
432	Growth of nanocomposite films: From dynamic roughening to dynamic smoothening. <i>Acta Materialia</i> , 2009 , 57, 5156-5164	8.4	30
431	Magnetic microstructure of YFe ₁₁ Ti aggregates. <i>Journal of Alloys and Compounds</i> , 2009 , 487, 11-17	5.7	6

430	Nanoscale domain evolution in thin films of multiferroic TbMnO ₃ . <i>Physical Review B</i> , 2009 , 80,	3.3	43
429	Electron microscopy characterization of W-O multilayers. <i>Microscopy and Microanalysis</i> , 2009 , 15, 59-60	0.5	
428	Oxidation-induced crack healing in Ti ₃ AlC ₂ ceramics. <i>Scripta Materialia</i> , 2008 , 58, 13-16	5.6	176
427	On the self-pinning character of synchro-Shockley dislocations in a Laves phase during strain rate cyclical compressions. <i>Scripta Materialia</i> , 2008 , 59, 788-791	5.6	9
426	Early stages of oxidation of Ti ₃ AlC ₂ ceramics. <i>Materials Chemistry and Physics</i> , 2008 , 112, 762-768	4.4	49
425	Transition from Casimir to van der Waals force between macroscopic bodies. <i>Applied Physics Letters</i> , 2008 , 93, 121912	3.4	33
424	Opportunities from the nanoworld: Gas phase nanoparticles. <i>Journal of Alloys and Compounds</i> , 2008 , 449, 237-241	5.7	3
423	Piezoresponse force microscopy of ferroelectric thin films: Frequency dependence of phase imaging. <i>Journal of Applied Physics</i> , 2008 , 103, 114109	2.5	5
422	Roughness of microspheres for force measurements. <i>Langmuir</i> , 2008 , 24, 7528-31	4	30
421	Reversible Electrical Resistance Switching in GeSbTe Thin Films: An Electrolytic Approach without Amorphous-Crystalline Phase-Change. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1071, 1		
420	Crystal Growth Rates in Doped Sb _x Te Fast-Growth Phase-Change Films Studied with Transmission Electron Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1072, 1		
419	On the composition analysis of nc-TiC/a-C : H nanocomposite coatings. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 085402	3	6
418	Influence of roughness on capillary forces between hydrophilic surfaces. <i>Physical Review E</i> , 2008 , 78, 031606	2.4	71
417	Nanoscale deformation in TiC/a-C multilayered nanocomposite coatings. <i>Applied Physics Letters</i> , 2008 , 92, 241913	3.4	8
416	Effects of tensile and compressive in-plane stress fields on adhesion in laser induced delamination experiments. <i>Journal of Applied Physics</i> , 2008 , 103, 103523	2.5	7
415	Influence of random roughness on the Casimir force at small separations. <i>Physical Review B</i> , 2008 , 77,	3.3	82
414	Microstructure and tribological behavior of tungsten-containing diamondlike carbon coated rubbers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008 , 26, 1085-1092	2.9	16
413	Magnetic and dielectric properties of YbMnO ₃ perovskite thin films. <i>Physical Review B</i> , 2008 , 78,	3.3	21

412	Optical properties of gold films and the Casimir force. <i>Physical Review B</i> , 2008 , 77,	3.3	126
411	Monodomain strained ferroelectric PbTiO ₃ thin films: Phase transition and critical thickness study. <i>Physical Review B</i> , 2008 , 78,	3.3	31
410	TEM Characterization of W-O-N Coatings. <i>Microscopy and Microanalysis</i> , 2008 , 14, 27-30	0.5	8
409	Measurement of dispersive forces between evaporated metal surfaces in the range below 100nm. <i>Applied Physics Letters</i> , 2008 , 92, 054101	3.4	30
408	Nonlinearities in composition dependence of structure parameters and magnetic properties of nanocrystalline fcc/bcc-mixed Co _{1-x} Ni _x Fe thin films. <i>Journal of Applied Physics</i> , 2008 , 103, 07E738	2.5	6
407	Recovery and recrystallization in the superplastic deformation of AA5182. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 279-284	0.9	2
406	The Influence of Cell Shape Anisotropy on the Tensile Behavior of Open Cell Aluminum Foam. <i>Advanced Engineering Materials</i> , 2008 , 10, 877-881	3.5	25
405	Microstructural control of TiC/a-C nanocomposite coatings with pulsed magnetron sputtering. <i>Acta Materialia</i> , 2008 , 56, 696-709	8.4	119
404	The influence of strain-induced damage on the mechanical response of open-cell aluminum foam. <i>Acta Materialia</i> , 2008 , 56, 609-618	8.4	48
403	An electron microscopy appraisal of tensile fracture in metallic glasses. <i>Acta Materialia</i> , 2008 , 56, 1762-1873	8.3	94
402	Tribological behavior of W-DLC coated rubber seals. <i>Surface and Coatings Technology</i> , 2008 , 202, 1869-1875	4.4	55
401	Microstructure of reaction zone in WCp/duplex stainless steels matrix composites processing by laser melt injection. <i>Surface and Coatings Technology</i> , 2008 , 202, 2113-2120	4.4	28
400	Wear resistance of WCp/Duplex Stainless Steel metal matrix composite layers prepared by laser melt injection. <i>Surface and Coatings Technology</i> , 2008 , 202, 4758-4765	4.4	27
399	Magnetron reactively sputtered Ti-DLC coatings on HNBR rubber: The influence of substrate bias. <i>Surface and Coatings Technology</i> , 2008 , 202, 4939-4944	4.4	48
398	Structure and property evaluation of a vacuum plasma sprayed nanostructured tungsten/bafnium carbide bulk composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 477, 350-357	5.3	21
397	Fracture behavior of low-density replicated aluminum alloy foams. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 496, 376-382	5.3	17
396	Advances in transmission electron microscopy: in situ nanoindentation and in situ straining experiments 2008 , 463-464		1
395	In-situ birefringence microscopy of uniaxially stretched metal/polymer laminate. <i>Surface and Coatings Technology</i> , 2007 , 201, 4633-4639	4.4	3

394	Thick Co-based coating on cast iron by side laser cladding: Analysis of processing conditions and coating properties. <i>Surface and Coatings Technology</i> , 2007 , 201, 5875-5883	4.4	126
393	A methodology to determine anisotropy effects in non-cubic coatings. <i>Surface and Coatings Technology</i> , 2007 , 201, 6911-6916	4.4	25
392	Microstresses and microstructure in thick cobalt-based laser deposited coatings. <i>Surface and Coatings Technology</i> , 2007 , 201, 6363-6371	4.4	27
391	Microstructure and wear studies of laser clad Al-Si/SiC(p) composite coatings. <i>Surface and Coatings Technology</i> , 2007 , 201, 9497-9505	4.4	85
390	State of residual stress in laser-deposited ceramic composite coatings on aluminum alloys. <i>Acta Materialia</i> , 2007 , 55, 1203-1214	8.4	89
389	The mechanical properties and the deformation microstructures of the C15 Laves phase Cr ₂ Nb at high temperatures. <i>Acta Materialia</i> , 2007 , 55, 1873-1884	8.4	65
388	Surface roughening of metal/polymer systems during plastic deformation. <i>Acta Materialia</i> , 2007 , 55, 2757-2764	8.4	20
387	Tribological and mechanical properties of high power laser surface-treated metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 471, 155-164	5.3	65
386	FCC/BCC competition and enhancement of saturation magnetization in nanocrystalline Co-Ni-Fe films. <i>JETP Letters</i> , 2007 , 85, 212-215	1.2	5
385	Degradation and recovery of adhesion properties of deformed metal/polymer interfaces studied by laser induced delamination. <i>Progress in Organic Coatings</i> , 2007 , 58, 180-186	4.8	14
384	Ion-beam analysis of the structure and composition of nanocomposite nc-TiC/a-C:H coatings. <i>Journal of Surface Investigation</i> , 2007 , 1, 674-678	0.5	2
383	Determining the mass density of a hydrocarbon matrix in thin-film nanocomposites by ion-beam techniques. <i>Technical Physics Letters</i> , 2007 , 33, 919-922	0.7	
382	Substrate influence on the shape of domains in epitaxial PbTiO ₃ thin films. <i>Journal of Applied Physics</i> , 2007 , 102, 104105	2.5	18
381	Adhesion along metal-polymer interfaces during plastic deformation. <i>Journal of Materials Science</i> , 2007 , 42, 3529-3536	4.3	16
380	Jerky-type phenomena at nanocomposite surfaces: The breakdown of the Coulomb friction law. <i>Jom</i> , 2007 , 59, 45-49	2.1	1
379	Scratch test induced shear banding in high power laser remelted metallic glass layers. <i>Journal of Materials Research</i> , 2007 , 22, 460-470	2.5	15
378	Polarization retention loss in PbTiO ₃ ferroelectric films due to leakage currents. <i>Journal of Applied Physics</i> , 2007 , 102, 084103	2.5	20
377	Incipient plasticity in metallic thin films. <i>Applied Physics Letters</i> , 2007 , 90, 181924	3.4	40

376	Very high-cycle fatigue failure in micron-scale polycrystalline silicon films: Effects of environment and surface oxide thickness. <i>Journal of Applied Physics</i> , 2007 , 101, 013515	2.5	52
375	Roughness corrections to the Casimir force: The importance of local surface slope. <i>Applied Physics Letters</i> , 2007 , 91, 144108	3.4	17
374	Smallest 90° domains in epitaxial ferroelectric films. <i>Applied Physics Letters</i> , 2007 , 91, 112901	3.4	70
373	Influence of electron beam exposure on crystallization of phase-change materials. <i>Journal of Applied Physics</i> , 2007 , 101, 053529	2.5	25
372	Formation and stability of rocksalt ZnO nanocrystals in MgO. <i>Applied Physics Letters</i> , 2007 , 91, 201906	3.4	22
371	Influence of random roughness on the adhesion between metal surfaces due to capillary condensation. <i>Applied Physics Letters</i> , 2007 , 91, 101905	3.4	34
370	Polarity-dependent reversible resistance switching in Ge ₂ Sb ₂ Te ₅ phase-change thin films. <i>Applied Physics Letters</i> , 2007 , 91, 152103	3.4	32
369	Work of adhesion in laser-induced delamination along polymer-metal interfaces. <i>Journal of Applied Physics</i> , 2007 , 101, 043520	2.5	12
368	Thick tool steel coatings with laser cladding. <i>WIT Transactions on Engineering Sciences</i> , 2007 ,	2	3
367	Influence of stresses and magnetostriction on the soft magnetic behavior of metallic films. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 299, 219-224	2.8	14
366	Influence of capping layers on the crystallization of doped Sb _x Te fast-growth phase-change films. <i>Journal of Applied Physics</i> , 2006 , 100, 123511	2.5	45
365	Breakdown of the Coulomb friction law in TiC ₂ -C:H nanocomposite coatings. <i>Journal of Applied Physics</i> , 2006 , 100, 114309	2.5	36
364	Electron Microscopy Characterization of Nanostructured Coatings. <i>Nanostructure Science and Technology</i> , 2006 , 143-215	0.9	
363	Tribological behavior and thermal stability of TiC ₂ -C:H nanocomposite coatings. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 1448-1453	2.9	19
362	In situ observations of crack propagation mechanisms along interfaces between confined polymer layers and glass. <i>Applied Physics Letters</i> , 2006 , 88, 061912	3.4	8
361	Coalescence aspects of cobalt nanoparticles during in situ high-temperature annealing. <i>Journal of Applied Physics</i> , 2006 , 99, 024307	2.5	46
360	Reactive magnetron sputtering deposition and columnar growth of nc-TiC ₂ -C:H nanocomposite coatings. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 1441-1447	2.9	12
359	Gas-phase synthesis of magnesium nanoparticles: A high-resolution transmission electron microscopy study. <i>Applied Physics Letters</i> , 2006 , 89, 161914	3.4	70

358	Carbon nanotubes encapsulating superconducting single-crystalline tin nanowires. <i>Nano Letters</i> , 2006 , 6, 1131-5	11.5	85
357	In-situ Tensile Testing of SiCp-Al Metal Matrix Composite Produced by Laser Embedding 2006 , 223-228		
356	Ti-6Al-4V with Laser Embedded SiC Particles: An Electron Microscopy Study 2006 , 36-41		
355	Widmanstätten Co ₃ W: HRTEM study of DO19 precipitation in an fcc matrix 2006 , 368-372		
354	Fracture Behavior of Metal Foam Made of Recycled MMC by the Melt Route. <i>Materials Transactions</i> , 2006 , 47, 2219-2222	1.3	5
353	Microscopic aspects of crack propagation along PET/glass and PET/Al interfaces. <i>International Journal of Solids and Structures</i> , 2006 , 43, 7371-7377	3.1	4
352	Deformation mechanisms in TiN/(Ti,Al)N multilayers under depth-sensing indentation. <i>Acta Materialia</i> , 2006 , 54, 1857-1862	8.4	60
351	Effects of crystal structure and grain orientation on the roughness of deformed polycrystalline metals. <i>Acta Materialia</i> , 2006 , 54, 2813-2821	8.4	65
350	Deformation and reconstruction mechanisms in coarse-grained superplastic Al/Mg alloys. <i>Acta Materialia</i> , 2006 , 54, 3827-3833	8.4	45
349	Failure mechanisms of closed-cell aluminum foam under monotonic and cyclic loading. <i>Acta Materialia</i> , 2006 , 54, 4465-4472	8.4	60
348	Interfaces within strain gradient plasticity: Theory and experiments. <i>Acta Materialia</i> , 2006 , 54, 5077-5085	8.4	118
347	Advanced TiC/a-C:H nanocomposite coatings deposited by magnetron sputtering. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 565-570	6	61
346	Deformation and failure mechanism of nano-composite coatings under nano-indentation. <i>Surface and Coatings Technology</i> , 2006 , 200, 6718-6726	4.4	82
345	Ion bombardment effects on nucleation of sputtered Mo nano-crystals in Mo/B ₄ C/Si multilayers. <i>Surface and Coatings Technology</i> , 2006 , 201, 143-147	4.4	12
344	Influence of deposition parameters on the structure and mechanical properties of nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2006 , 201, 590-598	4.4	61
343	Residual stress analysis in Co-based laser clad layers by laboratory X-rays and synchrotron diffraction techniques. <i>Surface and Coatings Technology</i> , 2006 , 201, 533-542	4.4	66
342	Interface fracture behavior of zinc coatings on steel: Experiments and finite element calculations. <i>Surface and Coatings Technology</i> , 2006 , 201, 4311-4316	4.4	40
341	In situ TEM nanoindentation and dislocation-grain boundary interactions: a tribute to David Brandon. <i>Journal of Materials Science</i> , 2006 , 41, 7704-7719	4.3	86

340	Galileo Comes to the Surface!. <i>Nanostructure Science and Technology</i> , 2006 , 1-26	0.9	2
339	The influence of the surface topography on the magnetization dynamics in soft magnetic thin films. <i>Journal of Applied Physics</i> , 2005 , 97, 013904	2.5	13
338	In situ transmission electron microscopy studies on structural dynamics of transition metal nanoclusters. <i>Journal of Materials Research</i> , 2005 , 20, 1785-1791	2.5	11
337	Variation of structure and magnetic properties with thickness of thin Co ₅₉ Fe ₂₆ Ni ₁₅ films. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 1539-1542	2.8	15
336	Superplastic behavior of coarse-grained aluminum alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 120-123	5.3	12
335	A modified blister test to study the adhesion of thin coatings based on local helium ion implantation. <i>Thin Solid Films</i> , 2005 , 471, 170-176	2.2	26
334	On the microstructure of tungsten disulfide films alloyed with carbon and nitrogen. <i>Thin Solid Films</i> , 2005 , 484, 389-395	2.2	39
333	Analysis of coaxial laser cladding processing conditions. <i>Surface and Coatings Technology</i> , 2005 , 197, 127-136	4.4	306
332	Sliding wear resistance of metal matrix composite layers prepared by high power laser. <i>Surface and Coatings Technology</i> , 2005 , 197, 303-315	4.4	110
331	Nanostructured TiC/a-C coatings for low friction and wear resistant applications. <i>Surface and Coatings Technology</i> , 2005 , 198, 44-50	4.4	104
330	Determination of the sp ³ C content of a-C films through EELS analysis in the TEM. <i>Surface and Coatings Technology</i> , 2005 , 200, 739-743	4.4	23
329	Influence of energetic ion bombardment on W-C:H coatings deposited with W and WC targets. <i>Surface and Coatings Technology</i> , 2005 , 200, 1142-1146	4.4	32
328	Adhesion behaviour of Cr _{Nx} coatings on pre-treated metal substrates studied in situ by PBA and ESEM after annealing. <i>Surface and Coatings Technology</i> , 2005 , 199, 57-65	4.4	4
327	Ni-toughened nc-TiN/a-Si ₃ N ₄ nanocomposite thin films. <i>Surface and Coatings Technology</i> , 2005 , 200, 1530-1534	4.4	56
326	TEM characterization of a Cr/Ti/TiC graded interlayer for magnetron-sputtered TiC/a-C:H nanocomposite coatings. <i>Acta Materialia</i> , 2005 , 53, 3925-3934	8.4	55
325	On the evolution of surface roughness during deformation of polycrystalline aluminum alloys. <i>Acta Materialia</i> , 2005 , 53, 4043-4050	8.4	86
324	Nanostructure and properties of TiC/a-C:H composite coatings. <i>Acta Materialia</i> , 2005 , 53, 4505-4521	8.4	242
323	Incipient plasticity during nanoindentation at grain boundaries in body-centered cubic metals. <i>Acta Materialia</i> , 2005 , 53, 4665-4676	8.4	155

322	Detection of grain-boundary resistance to slip transfer using nanoindentation. <i>Materials Letters</i> , 2005 , 59, 3192-3195	3-3	70
321	Bonding at Metal-Ceramic Interfaces Studied with High Resolution Transmission Electron Microscopy 2005 , 207-220		
320	Effects of self-affine surface roughness on the adhesion of metal-polymer interfaces. <i>Journal of Materials Science</i> , 2005 , 40, 3503-3508	4-3	9
319	Quantitative characterization of the growth and morphological evolution of bicrystalline aluminum thin films. <i>Journal of Materials Science</i> , 2005 , 40, 5033-5036	4-3	3
318	Fracture and microstructure of open cell aluminum foam. <i>Journal of Materials Science</i> , 2005 , 40, 5813-5819		41
317	Fracture of open- and closed-cell metal foams. <i>Journal of Materials Science</i> , 2005 , 40, 5821-5828	4-3	36
316	Local Probe Scanning Auger-Electron Microscopy Studies of Segregation Effects upon In-Situ Fracture 2005 , 87-92		
315	In situ transmission electron microscopy study of the crystallization of fast-growth doped Sb _x Te alloy films. <i>Journal of Materials Research</i> , 2005 , 20, 1825-1835	2-5	9
314	Adhesion of polymer coatings studied by laser-induced delamination. <i>Journal of Applied Physics</i> , 2005 , 97, 1235-10	2-5	15
313	Pull-in characteristics of electromechanical switches in the presence of Casimir forces: Influence of self-affine surface roughness. <i>Physical Review B</i> , 2005 , 72,	3-3	43
312	Magnetic and structural properties of Co nanocluster thin films. <i>Physical Review B</i> , 2005 , 71,	3-3	54
311	Structural dynamics of gas-phase molybdenum nanoclusters: A transmission electron microscopy study. <i>Applied Physics Letters</i> , 2005 , 86, 1131-13	3-4	12
310	Practical Work of Adhesion of Polymer Coatings Studied by Laser Induced Delamination. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 875, 1		3
309	Magnetic versus structural properties of Co nanocluster thin films: A magnetic force microscopy study. <i>Applied Physics Letters</i> , 2004 , 84, 556-558	3-4	44
308	Effects of self-affine surface roughness on the friction coefficient of rubbers in the presence of a liquid interlayer. <i>Journal of Applied Physics</i> , 2004 , 95, 389-392	2-5	3
307	Ab initio transmission electron microscopy image simulations of coherent Ag/MgO interfaces. <i>Physical Review B</i> , 2004 , 70,	3-3	15
306	In situ transmission electron microscopy study of the crystallization of Ge ₂ Sb ₂ Te ₅ . <i>Journal of Applied Physics</i> , 2004 , 95, 924-932	2-5	172
305	Nanocomposite TiC/a-C coatings: structure and properties. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 843, 161		1

304	In situ transmission electron microscopy of nano-sized metal clusters. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 839, 161		
303	Protrusion formation and surface porosity development on thermally annealed helium implanted copper. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 217, 262-275	1.2	28
302	Formation of CdSe nanoclusters in MgO by ion beam synthesis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 216, 121-126	1.2	2
301	Formation and dissociation of Zn nanoclusters in MgO. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 216, 390-395	1.2	16
300	Formation, growth and dissociation of He bubbles in Al ₂ O ₃ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 216, 149-155	1.2	21
299	Electron microscopy and positron annihilation study of CdSe nanoclusters embedded in MgO. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 218, 410-415	1.2	3
298	Microstructure and properties of TiB/Ti-6Al-4V coatings produced with laser treatments. <i>Journal of Materials Engineering and Performance</i> , 2004 , 13, 406-412	1.6	24
297	On the formation of ultra-fine grained Fe-base alloys via phase transformations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 367, 176-184	5.3	4
296	Nanosized metal clusters: Challenges and opportunities. <i>Jom</i> , 2004 , 56, 40-45	2.1	81
295	In-situ NMR study of dislocation motion in Ca ⁺⁺ -doped NaCl crystals. <i>Solid State Communications</i> , 2004 , 129, 727-731	1.6	1
294	Microstructure, mechanical properties and cutting performance of superhard (Ti,Si,Al)N nanocomposite films grown by d.c. reactive magnetron sputtering. <i>Surface and Coatings Technology</i> , 2004 , 177-178, 459-468	4.4	52
293	Thermally induced delamination of amorphous hydrogenated carbon coatings monitored by positron beam analysis. <i>Surface and Coatings Technology</i> , 2004 , 180-181, 207-212	4.4	1
292	Influence of metal-oxide interfaces on L12 ordering in Cu ₃ Pd. <i>Acta Materialia</i> , 2004 , 52, 4651-4658	8.4	0
291	Effects of solute Mg on grain boundary and dislocation dynamics during nanoindentation of AlMg thin films. <i>Acta Materialia</i> , 2004 , 52, 5783-5790	8.4	131
290	Tailoring of misfit along interfaces between Zn _x Mn _{3-x} O ₄ and Ag. <i>Acta Materialia</i> , 2004 , 52, 5845-5851	8.4	6
289	Magnetic force microscopy on cobalt nanocluster films. <i>Applied Surface Science</i> , 2004 , 226, 185-190	6.7	14
288	On the crystallization of thin films composed of Sb _{3.6} Te with Ge for rewritable data storage. <i>Journal of Applied Physics</i> , 2004 , 95, 4714-4721	2.5	73
287	Some aspects of nanocrystalline nickel and zinc ferrites processed using microemulsion technique. <i>Materials Science and Technology</i> , 2003 , 19, 1617-1621	1.5	30

286	Aspects of mathematical morphology. <i>Advances in Imaging and Electron Physics</i> , 2003 , 119-194	0.2	24
285	In-situ TEM Observation of Gold Nanocluster Nucleation, Coarsening and Refining in Au Implanted MgO(100) Foils. <i>AIP Conference Proceedings</i> , 2003 ,	0	1
284	Thermal stability of ultrasoft Fe ₂ N films. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 7663-7674	1.8	9
283	Nano-porosity in silica reinforced methyltrimethoxysilane coatings studied by positron beam analysis. <i>Composites Science and Technology</i> , 2003 , 63, 1133-1139	8.6	1
282	Stress analysis and microstructure of PVD monolayer TiN and multilayer TiN/(Ti,Al)N coatings. <i>Thin Solid Films</i> , 2003 , 429, 179-189	2.2	106
281	Investigation on the formation of tungsten carbide in tungsten-containing diamond like carbon coatings. <i>Surface and Coatings Technology</i> , 2003 , 162, 288-293	4.4	104
280	Electron microscopic study on pyrolysis of CCA (chromium, copper and arsenic oxide)-treated wood. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003 , 68-69, 635-643	6	20
279	Time-of-flight atom probe measurements on Ni ₃ Al and Co ₃ W. <i>Ultramicroscopy</i> , 2003 , 95, 207-13	3.1	
278	Interfacial adhesion of laser clad functionally graded materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 342, 192-200	5.3	14
277	Lead induced intergranular fracture in aluminum alloy AA6262. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 361, 331-337	5.3	16
276	The evolution of microstructure in a laser clad TiB ₂ /Ti composite coating. <i>Acta Materialia</i> , 2003 , 51, 831-845	5.4	128
275	Ti ₃ SiC ₂ : A damage tolerant ceramic studied with nano-indentations and transmission electron microscopy. <i>Acta Materialia</i> , 2003 , 51, 2859-2872	8.4	141
274	Competitive segregation of gallium and indium at heterophase Cu-MnO interfaces studied with transmission electron microscopy. <i>Philosophical Magazine</i> , 2003 , 83, 727-743	1.6	4
273	Effects of topography on the local variation in the magnetization of ultrasoft magnetic films: A Lorentz microscopy study. <i>Philosophical Magazine</i> , 2003 , 83, 2899-2913	1.6	4
272	Nanosized iron clusters investigated with in situ transmission electron microscopy. <i>Applied Physics Letters</i> , 2003 , 82, 197-199	3.4	55
271	Evolution of normal stress and surface roughness in buckled thin films. <i>Journal of Applied Physics</i> , 2003 , 93, 893-897	2.5	9
270	Structural Stability of Nano-Sized Clusters. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 791, 1		
269	Direct Observations of Grain Boundary Phenomena during Indentation of Al and Al-Mg Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 795, 541		4

268	Self-affine roughness effects on the contact area between elastic bodies. <i>Journal of Applied Physics</i> , 2003 , 93, 898-902	2.5	8
267	Laser penetration spike welding: A microlaser welding technique enabling novel product designs and constructions. <i>Journal of Laser Applications</i> , 2003 , 15, 11-18	2.1	9
266	Niobium nanoclusters studied with in situ transmission electron microscopy. <i>Applied Physics Letters</i> , 2003 , 83, 3909-3911	3.4	16
265	Effect of roughness on the conductivity of semiconducting thin films/quantum wells with double rough boundaries. <i>Journal of Applied Physics</i> , 2003 , 93, 320-324	2.5	16
264	Influence of surface roughness on the adhesion of elastic films. <i>Physical Review E</i> , 2003 , 67, 021604	2.4	37
263	Influence of roughness on the detachment force of elastic films from self-affine rough surfaces. <i>Journal of Applied Physics</i> , 2003 , 94, 3041-3044	2.5	9
262	Structural properties of Au and Ag nanoclusters embedded in MgO. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002 , 191, 442-446	1.2	28
261	Nanocavity formation processes in MgO() by light ion (D, He, Li) and heavy ion (Kr, Cu, Au) implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002 , 191, 610-615	1.2	14
260	Structural effects due to the incorporation of Ar atoms in the lattice of ZrO ₂ thin films prepared by ion beam assisted deposition. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002 , 194, 333-345	1.2	6
259	Hybrid Polyamide/Silica Nanocomposites: Synthesis and Mechanical Testing. <i>Macromolecular Materials and Engineering</i> , 2002 , 287, 106-110	3.9	68
258	Precipitate formation in low-temperature nitrided cold-rolled Fe ₉₄ Ni ₄ Ti ₂ and Fe ₉₃ Ni ₄ Cr ₃ films. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 3075-3087	7.3	11
257	Analysis of Gibbsian segregation at heterophase interfaces using analytical transmission electron microscopy: a novel approach. <i>Acta Materialia</i> , 2002 , 50, 223-235	8.4	6
256	SiCp/Ti6Al4V functionally graded materials produced by laser melt injection. <i>Acta Materialia</i> , 2002 , 50, 2035-2051	8.4	112
255	On the fcc->D019 transformation in Co ₃ W alloys. <i>Acta Materialia</i> , 2002 , 50, 4511-4526	8.4	22
254	Electron beam induced oxidation of Al/Mg alloy surfaces. <i>Applied Surface Science</i> , 2002 , 191, 266-272	6.7	16
253	Microstructure of nanocrystalline FeZr(N)-films and their soft magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 180-182	2.8	14
252	Determination of near coincident site lattice orientations in MgO/Cu composite. <i>Journal of Materials Science</i> , 2002 , 37, 2511-2518	4.3	9
251	On the effects of thermomechanical processing on failure mode in precipitation-hardened aluminium alloys. <i>Journal of Materials Science</i> , 2002 , 37, 5065-5073	4.3	25

250	Mechanism of the structural phase transformations in epitaxial YHx switchable mirrors. <i>Journal of Applied Physics</i> , 2002 , 91, 1901-1909	2.5	18
249	Electron diffraction and high-resolution transmission electron microscopy of the high temperature crystal structures of GexSb2Te3+x (x=1,2,3) phase change material. <i>Journal of Applied Physics</i> , 2002 , 92, 3584-3590	2.5	207
248	Growth front roughening of room-temperature deposited copper nanocluster films. <i>Applied Physics Letters</i> , 2002 , 81, 1089-1091	3.4	26
247	Effects of network morphology on the failure stress of highly porous media. <i>Physical Review B</i> , 2002 , 66,	3.3	9
246	Electron microscopic study on catalytic carbonization of biomass carbon: I. carbonization of wood charcoal at high temperature by al-triisopropoxide. <i>Molecular Crystals and Liquid Crystals</i> , 2002 , 386, 33-38	0.5	7
245	Roughening aspects of room temperature vapor deposited oligomer thin films onto Si substrates. <i>Surface Science</i> , 2002 , 507-510, 357-361	1.8	14
244	Electron beam induced oxidation of Ni3Al surfaces: electron flux effects. <i>Surface Science</i> , 2002 , 507-510, 486-491	1.8	
243	Surface/interface roughness effects on magneto-electrical properties of thin films. <i>Surface Science</i> , 2002 , 507-510, 541-545	1.8	12
242	Crack Resistance of PVD Coatings: Influence of Surface Treatment Prior to Deposition. <i>Surface Engineering</i> , 2002 , 18, 283-288	2.6	15
241	Vortex pinning by natural defects in thin films of YBa2Cu3O7- δ . <i>Superconductor Science and Technology</i> , 2002 , 15, 395-404	3.1	53
240	Ultrasoft magnetic films investigated with Lorentz transmission electron microscopy and electron holography. <i>Microscopy and Microanalysis</i> , 2002 , 8, 274-87	0.5	9
239	Quantitative Characterization Of Morphological Evolution In Q = 2 Potts Model Aluminum Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 749, 1		
238	Controlling the induced anisotropy in soft magnetic films for high-frequency applications. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 3144-3146	2	13
237	On the GHz Frequency Response in Nanocrystalline FeXN Ultra-Soft Magnetic Films. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 720, 3141		1
236	Temperature rise due to fast-moving dislocations. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001 , 81, 1099-1120		31
235	Influence of interfacial binding energy and misfit on the shape of the oxide precipitates in metals. <i>Radiation Effects and Defects in Solids</i> , 2001 , 156, 19-26	0.9	
234	Subnanometer three-dimensional atom-probe investigation of segregation at MgO/Cu ceramic/metal heterophase interfaces. <i>Ultramicroscopy</i> , 2001 , 89, 203-13	3.1	8
233	Properties and characterization of multilayers of carbides and diamond-like carbon. <i>Surface and Coatings Technology</i> , 2001 , 142-144, 707-713	4.4	72

232	The effect of mound roughness on the electrical capacitance of a thin insulating film. <i>Solid State Communications</i> , 2001 , 118, 203-206	1.6	12
231	Grinding of WC/Co hardmetals. <i>Wear</i> , 2001 , 248, 187-196	3.5	135
230	Five-fold branched Si particles in laser clad AlSi functionally graded materials. <i>Acta Materialia</i> , 2001 , 49, 561-571	8.4	64
229	Influence of quasi-layer-by-layer roughness on proximity effects in thin film superconducting/normal-metal junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 355, 211-216	1.3	
228	Diamond and pore structure observed in wood charcoal. <i>Journal of Wood Science</i> , 2001 , 47, 414-416	2.4	22
227	A Subnanoscale Investigation of Sb Segregation at MnO/Ag Ceramic/Metal Interfaces. <i>Journal of Materials Science</i> , 2001 , 9, 199-211		6
226	Secondary interface dislocations in internally oxidized MgO/Cu composite. <i>Journal of Materials Science Letters</i> , 2001 , 20, 389-392		4
225	EBSP study of reaction zone in SiC/Al metal matrix composite prepared by laser melt injection. <i>Journal of Materials Science</i> , 2001 , 36, 4845-4849	4.3	20
224	Determination of the $\{111\}$ [211] orientational relationship in a MgO/Cu composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 316, 87-92	5.3	
223	In-situ TEM analysis of the reduction of nanometre-sized Mn ₃ O ₄ precipitates in a metal matrix. <i>Acta Materialia</i> , 2001 , 49, 765-774	8.4	4
222	Wetting on rough surfaces. <i>Acta Materialia</i> , 2001 , 49, 3533-3538	8.4	95
221	Grain boundary segregation and precipitation in aluminium alloys. <i>Scripta Materialia</i> , 2001 , 44, 281-286	5.6	49
220	Formation of Al ₂ O ₃ in reaction coatings produced with lasers. <i>Scripta Materialia</i> , 2001 , 44, 643-649	5.6	10
219	Orientation imaging microscopic observations of in situ deformed ultra low carbon steel. <i>Scripta Materialia</i> , 2001 , 44, 461-466	5.6	11
218	Microstructure and properties of giant magneto-resistant Au 80 Co 20 , Au 80 Co 10 Fe 10 , Cu 70 Ni 25 Fe 4 Mn and Cu 53 Ni 31 Fe 15 Mn. <i>Scripta Materialia</i> , 2001 , 44, 1461-1464	5.6	
217	Antimony segregation at copper/manganese-oxide interfaces studied with analytical transmission electron microscopy. <i>Scripta Materialia</i> , 2001 , 45, 169-175	5.6	3
216	Stacking faults in the Co ₇ W ₆ isomorph of the β phase. <i>Scripta Materialia</i> , 2001 , 45, 333-340	5.6	25
215	Characterization of mechanical properties of tungsten carbide/carbon multilayers: Cross-sectional electron microscopy and nanoindentation observations. <i>Journal of Materials Research</i> , 2001 , 16, 2213-2222	2.5	12

214	Identification of planar defects in D019 phases using high-resolution transmission electron microscopy. <i>Philosophical Magazine Letters</i> , 2001 , 81, 697-707	1	6
213	Linear growth of thin films under the influence of stress. <i>Applied Physics Letters</i> , 2001 , 78, 3044-3046	3.4	5
212	Influence of electron flux on the oxidation of Ni3Al surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 2581-2585	2.9	2
211	Correlated roughness effects on electrical conductivity of quantum wires. <i>Journal of Applied Physics</i> , 2001 , 89, 8002-8005	2.5	5
210	Effect of surface roughness on magnetic domain wall thickness, domain size, and coercivity. <i>Journal of Applied Physics</i> , 2001 , 89, 1325-1330	2.5	132
209	Nanostructure and giant magnetoresistive properties of granular systems. <i>Journal of Nanoscience and Nanotechnology</i> , 2001 , 1, 65-73	1.3	2
208	Metal/ceramic interfaces: a microscopic analysis. <i>Surface and Interface Analysis</i> , 2001 , 31, 637-658	1.5	23
207	Microstructure and properties of giant magnetoresistive granular Au80Co20 alloys. <i>Journal of Applied Physics</i> , 2001 , 89, 3381-3387	2.5	5
206	A two-dimensional computational methodology for high-speed dislocations in high strain-rate deformation. <i>Computational Materials Science</i> , 2001 , 20, 1-18	3.2	16
205	High-speed dislocations in high strain-rate deformations. <i>Computational Materials Science</i> , 2001 , 20, 19-27	2.2	29
204	Electron beam induced oxidation of surfaces of Ni3Al-base alloys. <i>Surface Science</i> , 2001 , 476, L267-L272	1.8	8
203	Ultra high vacuum scanning Auger/electron microscopy studies of oxidation and B surface segregation of in situ fractured B-doped Ni3Al alloys. <i>Surface Science</i> , 2001 , 482-485, 254-259	1.8	6
202	Mound surface roughness effects on the thermal capacitance of thin films. <i>Journal of Applied Physics</i> , 2001 , 89, 6130-6134	2.5	8
201	Growth front roughening of room-temperature deposited oligomer films. <i>Applied Physics Letters</i> , 2001 , 79, 1801-1803	3.4	19
200	Structure and Giant Magneto-Resistive Properties of Co and CoFe nano-particles in a Au matrix. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 676, 821		0
199	Stress development and adhesion behavior in thin ceramic coatings monitored by positron annihilation during bending. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 695, 1		
198	Nano Indentations Studies of WC/C and TiN/(Ti,Al)N Multilayer PVD Coatings Combined with Cross-sectional Electron Microscopy Observations. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 697, 151		2
197	Growth Front Roughening of Room Temperature Deposited Oligomer Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 648, 1		

196	Influence of Oxidation on Boron Segregation to Grain Boundaries of In-Situ Fractured Ni3Al Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 654, 3121		
195	TEM Study of TiN and CrN Precipitate Formation in Iron Alloys. <i>Physica Status Solidi A</i> , 2000 , 177, 117-125		11
194	Asymmetrical strain distribution in sputtered TiN layers. <i>Thin Solid Films</i> , 2000 , 371, 10-16	2.2	3
193	Roughness effects on magnetic properties of thin films. <i>Physica B: Condensed Matter</i> , 2000 , 283, 199-202	2.8	27
192	HRTEM study of Co7W6 and its typical defect structure. <i>Acta Materialia</i> , 2000 , 48, 2703-2712	8.4	35
191	High-resolution transmission electron microscopy study of discontinuously precipitated Ni3Sn. <i>Acta Materialia</i> , 2000 , 48, 4203-4215	8.4	10
190	Laser melt injection in aluminum alloys: on the role of the oxide skin. <i>Acta Materialia</i> , 2000 , 48, 4225-4233	8.4	84
189	Effects of precipitates in Cu upon impact fracture: an ultra-high-vacuum study with local probe Scanning Auger/Electron Microscopy. <i>Acta Materialia</i> , 2000 , 48, 1995-2004	8.4	12
188	Functionally graded materials produced by laser cladding. <i>Acta Materialia</i> , 2000 , 48, 2617-2624	8.4	187
187	Influence of misfit and interfacial binding energy on the shape of the oxide precipitates in metals; Interfaces between Mn3O4 precipitates and Pd studied with HRTEM. <i>Acta Materialia</i> , 2000 , 48, 3687-3699	8.4	15
186	Roughness effect on the measurement of interface stress. <i>Acta Materialia</i> , 2000 , 48, 3641-3645	8.4	12
185	Study of polymer/metal coating under stress using positron annihilation spectroscopy. <i>Acta Materialia</i> , 2000 , 48, 4743-4747	8.4	5
184	Influence of proximity effects in superconductor/normal metal junctions from mound roughness and film growth mechanisms. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 330, 99-104	1.3	2
183	Reply to comment on Reaction layers around SiC particles in Ti: an electron microscopy study. <i>Scripta Materialia</i> , 2000 , 43, 287-289	5.6	3
182	In-situ microscopy investigation of failure mechanisms in Al/SiCp metal matrix composite produced by laser embedding. <i>Scripta Materialia</i> , 2000 , 42, 589-595	5.6	46
181	Copper implantation defects in MgO observed by positron beam analysis, RBS and X-TEM. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000 , 166-167, 225-231	1.2	11
180	Surface fatigue resistance of tool steel coated with thin brittle PVD layers. <i>Tribology Series</i> , 2000 , 38, 139-144		
179	Fractality aspects during agglomeration of solid-phase-epitaxy CoBilicide thin films. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 2472		3

178	Correlated Roughness Effects in the Giant Magnetoresistance of Magnetic Multilayers. <i>Acta Physica Polonica A</i> , 2000 , 97, 495-498	0.6	2
177	Residual stress fields in sol-gel-derived thin TiO ₂ layers. <i>Journal of Materials Research</i> , 1999 , 14, 1896-1903	3.1	8
176	Surface sensitivity effects with local probe scanning Auger-scanning electron microscopy. <i>Applied Physics Letters</i> , 1999 , 75, 1080-1082	3.4	5
175	Reaction layers around SiC particles in Ti: an electron microscopy study. <i>Acta Materialia</i> , 1999 , 47, 3105-3116	3.1	83
174	Metal-ceramic interfaces studied with high-resolution transmission electron microscopy. <i>Acta Materialia</i> , 1999 , 47, 4077-4092	8.4	31
173	Magnesium surface segregation and oxidation in AlMg alloys studied with local probe scanning Auger-scanning electron microscopy. <i>Applied Surface Science</i> , 1999 , 152, 250-258	6.7	23
172	Structure-property relations for silicon nitride matrix composites reinforced with pyrolytic carbon pre-coated Hi-Nicalon fibers. <i>Journal of Materials Science</i> , 1999 , 34, 4737-4749	4.3	2
171	Analyses of small facets imaged with scanning-probe microscopy. <i>Journal of Applied Physics</i> , 1999 , 86, 3661-3669	2.5	8
170	High-resolution transmission electron microscopy imaging of misfit-dislocation networks at Cu-MgO and Cu-MnO interfaces. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1999 , 79, 2083-2101		28
169	Determination of x-ray elastic constants using an in situ pressing device. <i>Journal of Materials Research</i> , 1998 , 13, 1757-1760	2.5	2
168	Analyses of laser and furnace treated sol-gel coatings. <i>Surface Engineering</i> , 1998 , 14, 395-399	2.6	1
167	A quantitative analysis of surface deformation by stick/slip atomic force microscopy. <i>Journal of Applied Physics</i> , 1997 , 82, 3763-3770	2.5	7
166	In situ generation and atomic scale imaging of slip traces with atomic force microscopy. <i>Review of Scientific Instruments</i> , 1997 , 68, 4492-4497	1.7	12
165	Influence of atomic force microscope tip-sample interaction on the study of scaling behavior. <i>Applied Physics Letters</i> , 1997 , 71, 1347-1349	3.4	68
164	Influence of spring stiffness and anisotropy on stick-slip atomic force microscopy imaging. <i>Journal of Applied Physics</i> , 1996 , 80, 623-632	2.5	25
163	X-ray measurement of residual stresses in laser surface melted Ti-6Al-4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 208, 143-147	5.3	32
162	Reactive wetting of liquid metals on ceramic substrates. <i>Acta Materialia</i> , 1996 , 44, 421-426	8.4	144
161	Mechanical performance of metal-ceramic interfaces produced by laser processing. <i>Journal of Materials Science</i> , 1995 , 3, 107-118		11

160	Wetting kinetics of liquid aluminium on an Al ₂ O ₃ surface. <i>Journal of Materials Science</i> , 1995 , 30, 3571-3575	4.5	23
159	Misfit dislocations at metal-ceramic interfaces. <i>Physica Status Solidi A</i> , 1995 , 149, 95-103		3
158	Twinning mechanisms in laser processed ceramic coatings. <i>Physica Status Solidi A</i> , 1995 , 149, 409-428		1
157	In situ nuclear magnetic resonance investigation of deformation-generated vacancies in aluminum. <i>Physical Review B</i> , 1995 , 52, 125-133	3.3	31
156	Kr incorporation in sputtered amorphous Si layers. <i>Journal of Applied Physics</i> , 1995 , 77, 3467-3478	2.5	5
155	Metal-Ceramic Interfaces Produced by Laser Melt Injection Processing. <i>Materials and Manufacturing Processes</i> , 1995 , 10, 1285-1294	4.1	9
154	Influence of surface roughness on the wetting angle. <i>Journal of Materials Research</i> , 1995 , 10, 1984-1992	2.5	72
153	Enhanced mechanical properties of laser treated Al-Cu alloys: A microstructural analysis. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 2649-2656		14
152	Microstructural characterization of laser nitrided titanium. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 33, 567-573		64
151	Observations of precipitation in a particle-reinforced Al-Cu-Mg alloy with 20% silicon. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 33, 427-432		2
150	Al ₂ O ₃ interface in laser coated aluminium alloys. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 33, 1345-1351		6
149	Atomic force microscopy imaging of transition metal layered compounds: A two-dimensional stick-slip system. <i>Applied Physics Letters</i> , 1995 , 67, 347-349	3.4	29
148	Morphologies and Growth Modes of FeSi and FeSi ₂ Layers Prepared by Rapid Thermal Annealing. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 402, 373		
147	Depth profile and stress measurements on implanted layers. <i>Radiation Effects and Defects in Solids</i> , 1994 , 132, 193-201	0.9	
146	Microstructure of Cr ₂ O ₃ coatings on steel and the effect of silicon. <i>Journal of Materials Research</i> , 1994 , 9, 142-150	2.5	3
145	Shock wave equation of state of powder material. <i>Journal of Applied Physics</i> , 1994 , 75, 809-813	2.5	15
144	Glancing angle x-ray diffraction: A different approach. <i>Applied Physics Letters</i> , 1994 , 64, 1585-1587	3.4	11
143	Thermodynamic model of the compaction of powder materials by shock waves. <i>Journal of Applied Physics</i> , 1994 , 75, 203-209	2.5	11

142	Different types of dislocations in YBa ₂ Cu ₃ O _{7-δ} . <i>Physical Review B</i> , 1994 , 50, 3271-3279	3.3	15
141	Defect profiling of neon-implanted and laser-melted steel by positron annihilation. <i>Surface and Coatings Technology</i> , 1994 , 66, 393-397	4.4	3
140	On the role of dislocations in heavily strained YBa ₂ Cu ₃ O ₇ . <i>Ultramicroscopy</i> , 1994 , 56, 135-143	3.1	3
139	Highly pressurized Kr agglomerates in sputtered Si films. <i>Thin Solid Films</i> , 1994 , 241, 12-15	2.2	1
138	Laser treatment of aluminium copper alloys: A mechanical enhancement. <i>Scripta Metallurgica Et Materialia</i> , 1994 , 30, 493-498		6
137	Metal-ceramic interfaces in laser coated aluminium alloys. <i>Acta Metallurgica Et Materialia</i> , 1994 , 42, 1155-1162	3.0	
136	Shock wave velocity and shock pressure for low density powders: A novel approach. <i>Applied Physics Letters</i> , 1994 , 64, 933-935	3.4	4
135	Martensitic transformations in laser processed coatings. <i>Acta Metallurgica Et Materialia</i> , 1993 , 41, 2557-2564		9
134	A reaction coating on aluminium alloys by laser processing. <i>Scripta Metallurgica Et Materialia</i> , 1993 , 28, 219-224		20
133	Microstructure and mechanical properties of a laser treated Al alloy. <i>Acta Metallurgica Et Materialia</i> , 1993 , 41, 1989-1998		22
132	HREM Investigation of Al-MgO Interface. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 319, 15		
131	Structure-Property Relationship of Metal-Ceramic Interfaces Produced by Laser Processing. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 319, 21		1
130	Residual stresses in the surface layer of laser-treated steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 161, 83-89	5.3	17
129	Interactions between lattice dislocations and grain boundaries in L1 ₂ ordered compounds investigated by in situ transmission electron microscopy and computer modelling experiments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 164, 415-420	5.3	6
128	Determination of grain boundary geometry using TEM. <i>Journal of Materials Research</i> , 1992 , 7, 1707-1717	7.5	12
127	Various regimes of charge-density waves in layered compounds. <i>Physical Review B</i> , 1992 , 46, 2001-2007	3.3	19
126	On the Interactions between Lattice Dislocations and Grain Boundaries in Ordered Compounds. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 288, 299		
125	Scanning Tunneling Microscopy on Charge Density Waves in Layered Compounds. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 295, 15		1

124	Surface modification by means of laser melting combined with shot peening: A novel approach. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 3317-3324		12
123	AlSiC interface structure studied by HREM. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, S281-S287		16
122	Metal-ceramic interfaces in laser coated steels: A transmission electron microscopy study of a mixture of iron and spinel grains. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, S139-S142		6
121	Interactions between lattice dislocations and grain boundaries in Ni ₃ Al investigated by means of in situ TEM and computer modelling experiments. <i>Acta Metallurgica Et Materialia</i> , 1992 , 40, 2511-2521		27
120	X-ray stress analysis of neon implantation in laser-treated 304 stainless steel. <i>Surface and Coatings Technology</i> , 1991 , 45, 43-51	4-4	3
119	The influence of convection on the homogeneity of laser-applied coatings. <i>Journal of Materials Science</i> , 1991 , 26, 711-714	4-3	17
118	Mechanical strength of highly porous ceramics. <i>Physical Review B</i> , 1991 , 43, 3794-3796	3-3	36
117	In situ nuclear-magnetic-resonance study of deformation-induced atomic diffusion in NaCl. <i>Physical Review B</i> , 1991 , 44, 1988-1991	3-3	9
116	Dependence of surface residual stress on laser power and laser scan velocity. <i>Scripta Metallurgica Et Materialia</i> , 1991 , 25, 2007-2010		6
115	The influence of noble gas bubbles on mechanical properties of steel. <i>Scripta Metallurgica Et Materialia</i> , 1991 , 25, 539-542		3
114	Reduction of the tensile stress state in laser treated materials. <i>Scripta Metallurgica Et Materialia</i> , 1991 , 25, 1719-1724		1
113	Spinel/metal interfaces in laser coated steels: A transmission electron microscopy study. <i>Acta Metallurgica Et Materialia</i> , 1991 , 39, 2267-2273		13
112	In-situ study of deformation-enhanced atomic diffusion in NaCl by nuclear magnetic resonance. <i>Radiation Effects and Defects in Solids</i> , 1991 , 119-121, 771-776	0.9	1
111	Interaction between lattice dislocations and grain boundaries in f.c.c. and ordered compounds: A computer simulation. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1991 , 64, 951-969		66
110	Development of residual stress and surface cracks in laser treated low carbon steel. <i>Scripta Metallurgica Et Materialia</i> , 1991 , 25, 779-784		14
109	Atomic Structure Calculations of the Interaction Between Lattice Dislocations and Grain Boundaries. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 193, 205		
108	Interaction Between Lattice Dislocations and Grain Boundaries in Ordered Compounds: Theory and Experiment. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 186, 253		1
107	Dislocation Dynamics In B.C.C. Metals: A Nuclear Magnetic Resonance and Transmission Electron Microscopic Study. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 209, 311		

- 106 Scanning Tunneling Microscopy Imaging of Defects in Layered Compounds. *Materials Research Society Symposia Proceedings*, **1990**, 209, 605
- 105 Interaction Between Lattice Dislocations and Grain Boundaries In Ordered Compounds. *Materials Research Society Symposia Proceedings*, **1990**, 213, 429 1
- 104 Atomic structure of (111) twist grain boundaries in f.c.c metals. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1990**, 61, 305-327 26
- 103 Tempering of steel during laser treatment. *Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science*, **1990**, 21, 987-995 22
- 102 Imaging the Al-SiC interface region by HREM techniques. *Micron and Microscopica Acta*, **1990**, 21, 281-282
- 101 Oxidation effects during laser cladding of aluminium with SiC/Al powders. *Journal of Materials Science*, **1990**, 25, 2335-2338 4-3 19
- 100 Local structural variations near twins in YBa₂Cu₃O₇-delta. *Physical Review B*, **1990**, 41, 9502-9505 3-3 7
- 99 Scanning tunneling microscopy imaging of transition-metal dichalcogenides. *Applied Physics Letters*, **1990**, 56, 2402-2404 3-4 12
- 98 Microstructure of laser treated Al alloys. *Acta Metallurgica Et Materialia*, **1990**, 38, 2471-2477 16
- 97 Solidification structures during laser treatment. *Scripta Metallurgica Et Materialia*, **1990**, 24, 593-598 12
- 96 Dislocation dynamics in vanadium: A nuclear magnetic resonance and transmission electron microscopic study. *Acta Metallurgica Et Materialia*, **1990**, 38, 2479-2484 3
- 95 Ne implantation induced transformation in stainless steel. *Acta Metallurgica Et Materialia*, **1990**, 38, 2067-2072 10
- 94 Scratch hardness and wear performance of laser-melted steels: Effects of anisotropy. *Wear*, **1989**, 132, 59-75 3-5 7
- 93 Interaction between lattice dislocations and grain boundaries in F.C.C. materials. *Scripta Metallurgica*, **1989**, 23, 1431-1435 21
- 92 Field Ion Microscopy of Quasicrystals. *Materials Research Society Symposia Proceedings*, **1989**, 139, 51
- 91 Atomic structure of stoichiometric and non-stoichiometric grain boundaries in A3B compounds with L12 structure. *Acta Metallurgica*, **1988**, 36, 2729-2741 72
- 90 Solution hardening in aluminium-magnesium alloys: A nuclear magnetic resonance and transmission electron microscopic study. *Acta Metallurgica*, **1988**, 36, 865-870 10
- 89 Anelastic relaxation in amorphous Pd₃₉.5Ni₃₉.5P₂₁. *Materials Science and Engineering*, **1988**, 97, 541-543 3

88	Enhanced wear properties of steel: A combination of ion implantation metallurgy and laser metallurgy. <i>Acta Metallurgica</i> , 1988 , 36, 3123-3130			7
87	Quasi-crystals studied with convergent beam electron diffraction. <i>Materials Science and Engineering</i> , 1988 , 99, 335-337			1
86	Determination of the crystal structure of icosahedral Al-Cu-Li. <i>Physical Review B</i> , 1988 , 38, 1681-1685	3.3		48
85	Field-ion-microscopy contradiction of the quasicrystal model based on twinning of a cubic crystal. <i>Physical Review B</i> , 1988 , 37, 4261-4264	3.3		9
84	Enhanced wear resistance by compressive strengthening: A novel combination of laser and ion implantation technology. <i>Applied Physics Letters</i> , 1988 , 53, 663-665	3.4		18
83	Dislocation dynamics in AlMgZn alloys: A nuclear magnetic resonance and transmission electron microscopic study. <i>Journal of Materials Research</i> , 1988 , 3, 645-650	2.5		4
82	Differences Between the Atomic Structures of Grain Boundaries in Pure F. C. C. Metals and L12 Ordered Compounds. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 122, 139			
81	Computer Generated Structures of Grain Boundaries in L12-Type Ordered Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 122, 145			
80	Enhanced Wear Resistance by Compressive Strengthening a Novel Combination of Laser and Ion Implantation Technology. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 128, 403			1
79	A Nuclear Magnetic Resonance and Transmission Electron Microscopic Study of Moving Dislocations in Ternary Al-Base Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 138, 111			
78	Field ion Microscopy of Quasicrystals. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 138, 341			
77	Enhanced Wear Resistance by Compressive Strengthening a Novel Combination of Laser and Ion Implantation Technology. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 140, 147			
76	Enhanced electron-beam-induced current contrast of grain boundaries in silicon-on-insulator films. <i>Journal of Applied Physics</i> , 1987 , 61, 5475-5477	2.5		0
75	Optical absorption in TiN _x O _y -compounds. <i>Journal of Applied Physics</i> , 1987 , 61, 4606-4611	2.5		28
74	The relationship between hardness and laser treatment of hypo-eutectoid steels. <i>Scripta Metallurgica</i> , 1987 , 21, 1737-1742			7
73	Crack initiation in a Ni-base superalloy. <i>Scripta Metallurgica</i> , 1987 , 21, 1481-1486			1
72	Wear induced hardening of laser processed chromium-carbon steel. <i>Scripta Metallurgica</i> , 1987 , 21, 627-632			24
71	Dislocation Dynamics Investigated by Means of Nuclear Magnetic Resonance a Complementarynew Technique. <i>Materials Research Society Symposia Proceedings</i> , 1986 , 82, 303			

70	Solution hardening in Al ₂ Zn alloys mean jump distance and activation length of moving dislocations. <i>Acta Metallurgica</i> , 1986 , 34, 1571-1581		24
69	Computed structure of near-coherent twin boundaries compared with tem observations. <i>Acta Metallurgica</i> , 1986 , 34, 1051-1057		4
68	Effects of fluorine implantation on the kinetics of dry oxidation of silicon. <i>Journal of Applied Physics</i> , 1986 , 60, 985-990	2.5	13
67	Density of oxidation-induced stacking faults in damaged silicon. <i>Journal of Applied Physics</i> , 1986 , 60, 1530-1532		4
66	Interatomic Forces and Structure of Grain Boundaries. <i>Materials Research Society Symposia Proceedings</i> , 1985 , 63, 137		3
65	Clustering phenomena of implants in tungsten observed with THDS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1985 , 6, 517-524	1.2	8
64	Effects of vacancies near substitutional implants on trapping and desorption of helium in simulation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1985 , 6, 525-532	1.2	1
63	Binding of helium to metallic impurities in tungsten; experiments and computer simulations. <i>Journal of Nuclear Materials</i> , 1985 , 127, 56-66	3.3	31
62	Superlattice intrinsic stacking faults in θ precipitates. <i>Scripta Metallurgica</i> , 1985 , 19, 1123-1128		54
61	Solution strengthening in Al ₂ Zn A nuclear magnetic resonance study. <i>Scripta Metallurgica</i> , 1985 , 19, 499-504		
60	Superlattice dislocations on {111} and {001} in superalloys. <i>Scripta Metallurgica</i> , 1985 , 19, 105-110		8
59	Effects of Cl ⁺ and F ⁺ implantation of oxidation-induced stacking faults in silicon. <i>Journal of Applied Physics</i> , 1984 , 55, 3485-3489	2.5	2
58	Interaction of vacancies with implanted metal atoms in tungsten observed by means of thermal helium desorption spectrometry and perturbed angular correlation measurements. <i>Radiation Effects</i> , 1984 , 84, 131-158		20
57	Interaction of self-interstitials with metallic impurities in tungsten observed with THDS. <i>Radiation Effects</i> , 1984 , 85, 103-110		3
56	The trapping of helium at a low angle tilt boundary in molybdenum. <i>Journal of Nuclear Materials</i> , 1984 , 125, 298-303	3.3	16
55	Nucleation of helium precipitates in nickel observed by HDS. <i>Journal of Nuclear Materials</i> , 1984 , 122, 560-564	3.3	27
54	Cascade annealing of tungsten implanted with 5 keV noble gas atoms: A computer simulation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1984 , 2, 710-714	1.2	2
53	Computed structure of grain boundaries compared with TEM observations. <i>Surface Science</i> , 1984 , 144, 1-13	1.8	9

52	A study of shallow and deep damage in Cu after implantation of 100 keV Cu and Ag ions. <i>Nuclear Instruments & Methods in Physics Research</i> , 1983 , 209-210, 963-967		3
51	Redistribution of implanted noble gas atoms by self-interstitials in molybdenum and nickel. <i>Nuclear Instruments & Methods in Physics Research</i> , 1983 , 209-210, 1055-1061		25
50	Atomistic studies of helium trapping in metals. <i>Radiation Effects</i> , 1983 , 78, 25-36		14
49	Dislocation dynamics in doped NaCl single crystals determined by pulsed NMR between RT and 300°C. <i>Radiation Effects</i> , 1983 , 74, 323-328		
48	The use of Fourier analysis in the representation of computed grain boundary structures. <i>Scripta Metallurgica</i> , 1983 , 17, 1161-1165		2
47	Superlattice dislocations in the L12 ordered structure of Cu ₂ NiZn. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1983 , 47, 193-207		9
46	Dynamical in situ nuclear-magnetic-resonance tensile apparatus. <i>Review of Scientific Instruments</i> , 1983 , 54, 341-345	1.7	18
45	A study of shallow and deep damage in Cu and Al after self-implantation. <i>Radiation Effects</i> , 1983 , 71, 289-314		8
44	Order-Disorder Transitions in Ternary Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1983 , 21, 277		
43	Formation of small vacancy clusters in tungsten around silver and indium impurities studied by PAC and THDS. <i>Hyperfine Interactions</i> , 1983 , 15, 421-424	0.8	10
42	The mean free path of mobile dislocations in doped NaCl single crystals measured by N.M.R. between room temperature and 300°C. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1982 , 46, 469-481		6
41	On the determination of dislocation densities in NaCl single crystals from quadrupolar linewidth measurements. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1982 , 46, 327-344		4
40	The orientation dependence of dislocation slip in NaCl single crystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1982 , 46, 451-468		11
39	Dislocation dynamics in aluminium and in aluminium-copper alloys: A nuclear magnetic resonance and transmission electron microscopic study. <i>Acta Metallurgica</i> , 1982 , 30, 1523-1536		18
38	Mechanical properties of the ordering alloy Cu ₂ NiZn. <i>Acta Metallurgica</i> , 1982 , 30, 1537-1547		7
37	Order-strengthening in the ternary alloy Cu ₂ NiZn. <i>Acta Metallurgica</i> , 1982 , 30, 581-588		4
36	Thermodynamic calculations for the liquid systems Na?K, K?Cs and Li?Pb. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1982 , 114, 59-66		8
35	The order-disorder transition in the quasi-binary cross section Cu ₅₀ Ni _{50-x} Zn _x . <i>Scripta Metallurgica</i> , 1981 , 15, 1359-1361		13

34	The quasi-binary cross section in the ternary system CuNiZn. <i>Scripta Metallurgica</i> , 1981 , 15, 1362-1364		9
33	Dislocation Motion in Metals Investigated by Means of Pulsed Nuclear Magnetic Resonance. <i>Materials Research Society Symposia Proceedings</i> , 1980 , 3, 421		
32	Nuclear Spin Relaxation Investigations on the Influence of Impurities and Temperature on the Mean Free Path of Mobile Dislocations in NaCl. <i>Materials Research Society Symposia Proceedings</i> , 1980 , 3, 481		
31	The coherent phase diagram of Cu-Ni-Zn. <i>Acta Metallurgica</i> , 1980 , 28, 1339-1347		30
30	On the X-ray Scattering Factor of Metallic Lithium in the Long-Wavelength Limit: The "Solid State Effect". <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1980 , 35, 373-377	1.4	4
29	Thermodynamic calculations for liquid alloys with an application to sodium-caesium. <i>Journal of Physics F: Metal Physics</i> , 1980 , 10, 1681-1692		38
28	A comparison between different theories predicting the stacking fault energy from extended nodes. <i>Scripta Metallurgica</i> , 1980 , 14, 285-288		46
27	Electronic states near dislocations in transition metals: An application of quantum chemistry in technology. <i>International Journal of Quantum Chemistry</i> , 1980 , 18, 575-582	2.1	4
26	Investigations on the structure of liquid Na-Cs alloys. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1979 , 97, 338-364		27
25	Atomic configuration of a $\frac{1}{2}$ $\langle 111 \rangle$ screw dislocation in pure Mo and in Mo containing He interstitials. <i>Physica Status Solidi (B): Basic Research</i> , 1979 , 92, 199-209	1.3	12
24	Superlattice dislocations in Cu ₂ NiZn. <i>Physica Status Solidi A</i> , 1979 , 52, 635-645		13
23	Characterization of superlattice dislocations in Cu ₂ NiZn by transmission electron microscopy. <i>Scripta Metallurgica</i> , 1979 , 13, 303-306		6
22	Remark on Algorithm 475: Visible Surface Plotting Program [J6] <i>ACM Transactions on Mathematical Software</i> , 1979 , 5, 521-523	2.3	1
21	On the Vibrational Entropy of a $\frac{1}{2}$ $\langle 111 \rangle$ {110} Edge Dislocation in B.C.C. Iron. <i>Physica Status Solidi (B): Basic Research</i> , 1978 , 87, 151-161	1.3	5
20	Interatomic potentials for alkali metals. A comparative study. <i>Physica Status Solidi (B): Basic Research</i> , 1978 , 90, 225-232	1.3	18
19	The influence of interatomic potentials on the interaction of He with a $\frac{1}{2}$ $\langle 111 \rangle$ {110} edge dislocation in molybdenum. <i>Physica Status Solidi (B): Basic Research</i> , 1978 , 90, 643-648	1.3	10
18	Computer simulation study of the entropy of a edge dislocation in B.C.C. iron. <i>Scripta Metallurgica</i> , 1978 , 12, 413-416		
17	Clustering of helium atoms at a edge dislocation in Iron. <i>Solid State Communications</i> , 1977 , 24, 193-196	1.6	19

16	Scattered wave functions of dislocated lattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1977 , 63, 174-176	2.3	2
15	On the formation of argon-vacancy clusters in copper irradiated with 4 to 6 kV argon ions. <i>Physica Status Solidi A</i> , 1977 , 40, 293-301		14
14	The i.r. spectra of several rare-earth formates. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1976 , 32, 1155-1157		7
13	The interaction of He with a $12 \langle 111 \rangle \{110\}$ edge dislocation in W and Mo. <i>Solid State Communications</i> , 1976 , 18, 479-482	1.6	33
12	The electronic states in molybdenum. <i>Physica Status Solidi (B): Basic Research</i> , 1976 , 78, 791-801	1.3	3
11	Normal coordinate analysis of crystals. <i>Computer Physics Communications</i> , 1975 , 10, 104-116	4.2	2
10	Symmetry and bandstructure. <i>Computer Physics Communications</i> , 1975 , 10, 67-69	4.2	1
9	Atomic configuration of a $\langle 111 \rangle \{110\}$ edge dislocation in α -Fe. <i>Solid State Communications</i> , 1975 , 17, 245-248	1.6	2
8	Diffusion drift paths around a $\langle 100 \rangle$ edge dislocation in α -Fe. <i>Solid State Communications</i> , 1975 , 16, 1231-1234	1.6	6
7	An atomic model for the interaction between a $\langle 111 \rangle \{110\}$ edge dislocation and carbon in α -Fe. <i>Solid State Communications</i> , 1975 , 17, 747-750	1.6	18
6	Diffusion drift paths in the core region of an edge dislocation. <i>Physica Status Solidi (B): Basic Research</i> , 1975 , 69, 417-428	1.3	7
5	Atomic Configuration of $1/2 \{110\}$ Edge Dislocations in Pure V, W, Mo, and Fe and in Fe Containing C Interstitials. <i>Physica Status Solidi (B): Basic Research</i> , 1975 , 71, 595-607	1.3	9
4	The infrared spectra of several rare-earth formates. <i>Journal of Inorganic and Nuclear Chemistry</i> , 1975 , 37, 2350-2351		7
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