## Marc A Meyers

# 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.

28,934 81 160 402 h-index g-index citations papers 8.1 32,708 7.45 452 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
402	Cantor-derived medium-entropy alloys: bridging the gap between traditional metallic and high-entropy alloys. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 17, 1868-1895	5.5	5
401	The role of pre-existing heterogeneities in materials under shock and spall. <i>Applied Physics Reviews</i> , <b>2022</b> , 9, 011305	17.3	3
400	Design of high-pressure iron Rayleigh Daylor strength experiments for the National Ignition Facility. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 145902	2.5	
399	Digital healthcare technologies: Modern tools to transform prosthetic care. <i>Expert Review of Medical Devices</i> , <b>2021</b> , 1-16	3.5	0
398	Exceptionally high spallation strength for a high-entropy alloy demonstrated by experiments and simulations. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 162567	5.7	2
397	Bite force mechanics and allometry of piranha (Serrasalmidae). <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 115, 104296	4.1	1
396	Micro-mechanical response of ultrafine grain and nanocrystalline tantalum. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 12, 1804-1815	5.5	3
395	Reprint of:The materials science of skin: Analysis, characterization, and modeling. <i>Progress in Materials Science</i> , <b>2021</b> , 120, 100816	42.2	O
394	Hydration-induced reversible deformation of biological materials. <i>Nature Reviews Materials</i> , <b>2021</b> , 6, 264-283	73.3	17
393	Shear localization in metallic materials at high strain rates. <i>Progress in Materials Science</i> , <b>2021</b> , 119, 1007	7 <b>55</b> .2	20
392	Multi-material additive manufacturing of functionally graded carbide ceramics via active, in-line mixing. <i>Additive Manufacturing</i> , <b>2021</b> , 37, 101647	6.1	5
391	Hydration-induced reversible deformation of the pine cone. <i>Acta Biomaterialia</i> , <b>2021</b> , 128, 370-383	10.8	7
390	Tooth structure, mechanical properties, and diet specialization of Piranha and Pacu (Serrasalmidae): A comparative study. <i>Acta Biomaterialia</i> , <b>2021</b> , 134, 531-545	10.8	2
389	Engineering with keratin: A functional material and a source of bioinspiration. <i>IScience</i> , <b>2021</b> , 24, 102798	86.1	10
388	The role of pre-existing defects in shock-generated ejecta in copper. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 075101	2.5	O
387	Towards the ultimate strength of iron: spalling through laser shock. <i>Acta Materialia</i> , <b>2021</b> , 215, 117072	8.4	11
386	Additive manufacturing of structural ceramics: a historical perspective. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 15, 670-695	5.5	3

### (2019-2021)

385	Amorphization in extreme deformation of the CrMnFeCoNi high-entropy alloy. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	45
384	Active defense mechanisms of thorny catfish. <i>Materials Today</i> , <b>2020</b> , 38, 35-48	21.8	3
383	Cholla cactus frames as lightweight and torsionally tough biological materials. <i>Acta Biomaterialia</i> , <b>2020</b> , 112, 213-224	10.8	5
382	The toughness of porcine skin: Quantitative measurements and microstructural characterization. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 109, 103848	4.1	4
381	Constitutive description of skin dermis: Through analytical continuum and coarse-grained approaches for multi-scale understanding. <i>Acta Biomaterialia</i> , <b>2020</b> , 106, 208-224	10.8	6
380	The materials science of skin: Analysis, characterization, and modeling. <i>Progress in Materials Science</i> , <b>2020</b> , 110, 100634	42.2	16
379	On the Strength of Hair across Species. <i>Matter</i> , <b>2020</b> , 2, 136-149	12.7	8
378	Molecular dynamics simulations of ejecta formation in helium-implanted copper. <i>Scripta Materialia</i> , <b>2020</b> , 178, 114-118	5.6	7
377	Offering Toughness and Protection, Arapaima Scales Provide Effective Defense against Predation. <i>Matter</i> , <b>2020</b> , 3, 1979-1980	12.7	
376	On the gular sac tissue of the brown pelican: Structural characterization and mechanical properties. <i>Acta Biomaterialia</i> , <b>2020</b> , 118, 161-181	10.8	О
375	Structure and Mechanical Adaptability of a Modern Elasmoid Fish Scale from the Common Carp. <i>Matter</i> , <b>2020</b> , 3, 842-863	12.7	15
374	A review of impact resistant biological and bioinspired materials and structures. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 15705-15738	5.5	23
373	The effects of ultra-fine-grained structure and cryogenic temperature on adiabatic shear localization in titanium. <i>Acta Materialia</i> , <b>2019</b> , 181, 408-422	8.4	18
372	Tensile behavior and structural characterization of pig dermis. <i>Acta Biomaterialia</i> , <b>2019</b> , 86, 77-95	10.8	33
371	On the Nature of the Transparent Teeth of the Deep-Sea Dragonfish, Aristostomias scintillans. <i>Matter</i> , <b>2019</b> , 1, 235-249	12.7	12
370	External Field Assisted Freeze Casting. <i>Ceramics</i> , <b>2019</b> , 2, 208-234	1.7	17
369	Bioinspired avian feather designs. <i>Materials Science and Engineering C</i> , <b>2019</b> , 105, 110066	8.3	6
368	Hyperelastic phase-field fracture mechanics modeling of the toughening induced by Bouligand structures in natural materials. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 131, 204-220	5	32

367	Arapaima Fish Scale: One of the Toughest Flexible Biological Materials. <i>Matter</i> , <b>2019</b> , 1, 1557-1566	12.7	17
366	Bioinspired composite segmented armour: Numerical simulations. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 1274-1287	5.5	15
365	Mechanical properties of high-entropy alloys with emphasis on face-centered cubic alloys. <i>Progress in Materials Science</i> , <b>2019</b> , 102, 296-345	42.2	306
364	Lessons from the Ocean: Whale Baleen Fracture Resistance. <i>Advanced Materials</i> , <b>2019</b> , 31, e1804574	24	22
363	Scaling of bird wings and feathers for efficient flight. Science Advances, 2019, 5, eaat4269	14.3	12
362	Structural architectures with toughening mechanisms in Nature: A review of the materials science of Type-I collagenous materials. <i>Progress in Materials Science</i> , <b>2019</b> , 103, 425-483	42.2	46
361	Adiabatic shear localization in the CrMnFeCoNi high-entropy alloy. <i>Acta Materialia</i> , <b>2018</b> , 151, 424-431	8.4	88
360	Fragmentation and mechanical performance of tailored nickel-aluminum laminate compacts.  Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 727, 123-132	5.3	1
359	Shock-induced amorphization in silicon carbide. <i>Acta Materialia</i> , <b>2018</b> , 158, 206-213	8.4	41
358	Spall strength dependence on grain size and strain rate in tantalum. Acta Materialia, 2018, 158, 313-329	8.4	57
357	A comparative analysis of the avian skull: Woodpeckers and chickens. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2018</b> , 84, 273-280	4.1	8
356	Additive Manufacturing as a Method to Design and Optimize Bioinspired Structures. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800940	24	98
355	Novel Defense Mechanisms in the Armor of the Scales of the Living Fossil Coelacanth Fish. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804237	15.6	37
354	Shock-induced Amorphization in Covalently Bonded Solids. <i>EPJ Web of Conferences</i> , <b>2018</b> , 183, 03027	0.3	4
353	Shear localization of fcc high-entropy alloys. <i>EPJ Web of Conferences</i> , <b>2018</b> , 183, 03028	0.3	3
352	Hydration-Induced Shape and Strength Recovery of the Feather. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801250	15.6	7
351	Revealing the Mechanics of Helicoidal Composites through Additive Manufacturing and Beetle Developmental Stage Analysis. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803073	15.6	32
350	On the ultimate tensile strength of tantalum. <i>Acta Materialia</i> , <b>2017</b> , 126, 313-328	8.4	57

#### (2017-2017)

349	Structural characterization and viscoelastic constitutive modeling of skin. <i>Acta Biomaterialia</i> , <b>2017</b> , 53, 460-469	10.8	34
348	High-velocity deformation of AlCoCrFeNi high-entropy alloy: Remarkable resistance to shear failure. <i>Scientific Reports</i> , <b>2017</b> , 7, 42742	4.9	85
347	Deformation and failure in extreme regimes by high-energy pulsed lasers: A review. <i>Materials Science &amp; Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 688, 429-458	5.3	41
346	Nature's technical ceramic: the avian eggshell. <i>Journal of the Royal Society Interface</i> , <b>2017</b> , 14,	4.1	18
345	Extreme lightweight structures: avian feathers and bones. <i>Materials Today</i> , <b>2017</b> , 20, 377-391	21.8	61
344	Simulation of tantalum nanocrystals under shock-wave loading: Dislocations and twinning <b>2017</b> ,		12
343	Functional gradients and heterogeneities in biological materials: Design principles, functions, and bioinspired applications. <i>Progress in Materials Science</i> , <b>2017</b> , 88, 467-498	42.2	331
342	Non-equilibrium molecular dynamics simulations of spall in single crystal tantalum <b>2017</b> ,		10
341	Lamellae spatial distribution modulates fracture behavior and toughness of african pangolin scales. Journal of the Mechanical Behavior of Biomedical Materials, <b>2017</b> , 76, 30-37	4.1	8
340	Dynamic deformation and failure of ultrafine-grained titanium. <i>Acta Materialia</i> , <b>2017</b> , 125, 210-218	8.4	59
339	Structure and mechanical behavior of human hair. <i>Materials Science and Engineering C</i> , <b>2017</b> , 73, 152-163	<b>3</b> 8.3	72
338	Light Like a Feather: A Fibrous Natural Composite with a Shape Changing from Round to Square. <i>Advanced Science</i> , <b>2017</b> , 4, 1600360	13.6	21
337	Generating gradient germanium nanostructures by shock-induced amorphization and crystallization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 9791-9796	11.5	34
336	Viscoelastic properties of ⊞keratin fibers in hair. <i>Acta Biomaterialia</i> , <b>2017</b> , 64, 15-28	10.8	16
335	Reinforcements in avian wing bones: Experiments, analysis, and modeling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 76, 85-96	4.1	14
334	Reversible Attachment with Tailored Permeability: The Feather Vane and Bioinspired Designs. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702954	15.6	13
333	Seagull feather shaft: Correlation between structure and mechanical response. <i>Acta Biomaterialia</i> , <b>2017</b> , 48, 270-288	10.8	22
332	A comparative study of piscine defense: The scales of Arapaima gigas, Latimeria chalumnae and Atractosteus spatula. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 73, 1-16	4.1	34

331	The organic interlamellar layer in abalone nacre: Formation and mechanical response. <i>Materials Science and Engineering C</i> , <b>2016</b> , 58, 7-13	8.3	19
330	Keratin: Structure, mechanical properties, occurrence in biological organisms, and efforts at bioinspiration. <i>Progress in Materials Science</i> , <b>2016</b> , 76, 229-318	42.2	376
329	Directional amorphization of boron carbide subjected to laser shock compression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 12088-12093	11.5	58
328	Supersonic Dislocation Bursts in Silicon. <i>Scientific Reports</i> , <b>2016</b> , 6, 26977	4.9	15
327	Fragmentation and constitutive response of tailored mesostructured aluminum compacts. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 145903	2.5	11
326	Shock compression of [001] single crystal silicon. <i>European Physical Journal: Special Topics</i> , <b>2016</b> , 225, 335-341	2.3	3
325	Symmetric tilt boundaries in body-centered cubic tantalum. Scripta Materialia, 2016, 116, 108-111	5.6	29
324	Reproducibility of ZrO2-based freeze casting for biomaterials. <i>Materials Science and Engineering C</i> , <b>2016</b> , 61, 105-12	8.3	40
323	Amorphization and nanocrystallization of silicon under shock compression. <i>Acta Materialia</i> , <b>2016</b> , 103, 519-533	8.4	77
322	Structure and mechanical properties of selected protective systems in marine organisms. <i>Materials Science and Engineering C</i> , <b>2016</b> , 59, 1143-1167	8.3	56
321	Microstructural and geometric influences in the protective scales of Atractosteus spatula. <i>Journal of the Royal Society Interface</i> , <b>2016</b> , 13,	4.1	7
320	Bioinspired intrinsic control of freeze cast composites: Harnessing hydrophobic hydration and clathrate hydrates. <i>Acta Materialia</i> , <b>2016</b> , 114, 67-79	8.4	21
319	Pangolin armor: Overlapping, structure, and mechanical properties of the keratinous scales. <i>Acta Biomaterialia</i> , <b>2016</b> , 41, 60-74	10.8	75
318	A lightweight, biological structure with tailored stiffness: The feather vane. <i>Acta Biomaterialia</i> , <b>2016</b> , 41, 27-39	10.8	37
317	Room Temperature Dynamic Strain Aging in Ultrafine-Grained Titanium. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 4468-4477	2.3	8
316	Grain-size dependent mechanical behavior of nanocrystalline metals. <i>Materials Science &amp; amp;</i> Engineering A: Structural Materials: Properties, Microstructure and Processing, <b>2015</b> , 646, 101-134	5.3	129
315	The materials science of collagen. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2015</b> , 52, 22-50	4.1	141
314	Braze welding of cobalt with a silverdopper filler. <i>Journal of Materials Research and Technology</i> , <b>2015</b> , 4, 44-59	5.5	4

313	The armored carapace of the boxfish. <i>Acta Biomaterialia</i> , <b>2015</b> , 23, 1-10	10.8	46
312	BIOMECHANICS. Why the seahorse tail is square. <i>Science</i> , <b>2015</b> , 349, aaa6683	33.3	59
311	Mechanical properties and corrosion resistance of hot extruded MgI.5ZnIICa alloy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2015</b> , 195, 50-58	3.1	30
310	On the tear resistance of skin. <i>Nature Communications</i> , <b>2015</b> , 6, 6649	17.4	206
309	Leatherback sea turtle shell: A tough and flexible biological design. <i>Acta Biomaterialia</i> , <b>2015</b> , 28, 2-12	10.8	53
308	Pressure and shear-induced amorphization of silicon. <i>Extreme Mechanics Letters</i> , <b>2015</b> , 5, 74-80	3.9	33
307	Torsional properties of helix-reinforced composites fabricated by magnetic freeze casting. <i>Composite Structures</i> , <b>2015</b> , 119, 174-184	5.3	39
306	A Sustainable Substitute for Ivory: the Jarina Seed from the Amazon. <i>Scientific Reports</i> , <b>2015</b> , 5, 14387	4.9	6
305	Phase Transformation in Tantalum under Extreme Laser Deformation. <i>Scientific Reports</i> , <b>2015</b> , 5, 15064	4.9	26
304	Probing the character of ultra-fast dislocations. <i>Scientific Reports</i> , <b>2015</b> , 5, 16892	4.9	26
303	Failure mechanisms in cobalt welded with a silverdopper filler. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 645, 369-382	5.3	4
302	Structural Design Elements in Biological Materials: Application to Bioinspiration. <i>Advanced Materials</i> , <b>2015</b> , 27, 5455-76	24	316
301	Bioinspired composites from freeze casting with clathrate hydrates. <i>Materials &amp; Design</i> , <b>2015</b> , 71, 62-67		26
300	Structure and mechanical properties of naturally occurring lightweight foam-filled cylinderthe peacock's tail coverts shaft and its components. <i>Acta Biomaterialia</i> , <b>2015</b> , 17, 137-51	10.8	40
299	Alligator osteoderms: mechanical behavior and hierarchical structure. <i>Materials Science and Engineering C</i> , <b>2014</b> , 35, 441-8	8.3	29
298	Organic interlamellar layers, mesolayers and mineral nanobridges: contribution to strength in abalone (Haliotis rufescence) nacre. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 2056-64	10.8	48
297	Reinforcing Structures in Avian Wing Bones. <i>Ceramic Transactions</i> , <b>2014</b> , 47-56	0.1	2
296	Protective role of Arapaima gigas fish scales: structure and mechanical behavior. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 3599-614	10.8	115

295	Bioinspired Scaffolds with Varying Pore Architectures and Mechanical Properties. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1978-1987	15.6	93
294	Atomistic simulation of tantalum nanoindentation: Effects of indenter diameter, penetration velocity, and interatomic potentials on defect mechanisms and evolution. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 613, 390-403	5.3	76
293	Plastic deformation in nanoindentation of tantalum: A new mechanism for prismatic loop formation. <i>Acta Materialia</i> , <b>2014</b> , 78, 378-393	8.4	112
292	A Comparison on the Structural and Mechanical Properties of Untreated and Deproteinized Nacre. <i>Ceramic Transactions</i> , <b>2014</b> , 37-45	0.1	1
291	Porous Scaffolds: Bioinspired Scaffolds with Varying Pore Architectures and Mechanical Properties (Adv. Funct. Mater. 14/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2108-2108	15.6	
290	Structural Characterization and Compressive Behavior of the Boxfish Horn. <i>Ceramic Transactions</i> , <b>2014</b> , 105-112	0.1	1
289	Plastic deformation of a porous bcc metal containing nanometer sized voids. <i>Computational Materials Science</i> , <b>2014</b> , 88, 92-102	3.2	37
288	Biological Materials Science: Biological Materials, Bioinspired Materials, and Biomaterials <b>2014</b> ,		56
287	Biomimetic Materials by Freeze Casting. <i>Jom</i> , <b>2013</b> , 65, 720-727	2.1	52
286	Structure and fracture resistance of alligator gar (Atractosteus spatula) armored fish scales. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 5876-89	10.8	86
285	Ultrafine grained titanium for biomedical applications: An overview of performance. <i>Journal of Materials Research and Technology</i> , <b>2013</b> , 2, 340-350	5.5	94
284	Atomistic simulation of the mechanical response of a nanoporous body-centered cubic metal. <i>Scripta Materialia</i> , <b>2013</b> , 68, 817-820	5.6	32
283	Isentropic/shock compression and recovery methodology for materials using high-amplitude laser pulses. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2013</b> , 578, 354-361	5.3	7
282	Laser compression of nanocrystalline tantalum. <i>Acta Materialia</i> , <b>2013</b> , 61, 7767-7780	8.4	41
281	Inverse Hall <b>P</b> etch relationship in nanocrystalline tantalum. <i>Materials Science &amp; Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013</i> , 580, 414-426	5.3	74
280	Mechanical adaptability of the Bouligand-type structure in natural dermal armour. <i>Nature Communications</i> , <b>2013</b> , 4, 2634	17.4	202
279	Comparative study of carp otolith hardness: lapillus and asteriscus. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 1876-81	8.3	14
278	Structural biological materials: critical mechanics-materials connections. <i>Science</i> , <b>2013</b> , 339, 773-9	33.3	669

#### (2012-2013)

277	Highly deformable bones: unusual deformation mechanisms of seahorse armor. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 6763-70	10.8	47
276	Natural flexible dermal armor. <i>Advanced Materials</i> , <b>2013</b> , 25, 31-48	24	241
275	Porous Hydroxyapatite-Polyhydroxybutyrate Composites Fabricated by a Novel Method Via Centrifugation. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , <b>2013</b> , 63-71	0.3	7
274	Magnetic enhancement of thermal conductivity in copperlarbon nanotube composites produced by electroless plating, freeze drying, and spark plasma sintering. <i>Materials Letters</i> , <b>2012</b> , 79, 256-258	3.3	41
273	Structure and micro-computed tomography-based finite element modeling of Toucan beak. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2012</b> , 9, 1-8	4.1	19
272	Biological materials: Functional adaptations and bioinspired designs. <i>Progress in Materials Science</i> , <b>2012</b> , 57, 1492-1704	42.2	457
271	Magnetic freeze casting inspired by nature. <i>Materials Science &amp; Discourse A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 556, 741-750	5.3	100
270	Ductile tensile failure in metals through initiation and growth of nanosized voids. <i>Acta Materialia</i> , <b>2012</b> , 60, 4856-4865	8.4	64
269	Laser compression of monocrystalline tantalum. Acta Materialia, 2012, 60, 6601-6620	8.4	58
268	Nanostructural and Microstructural Aspects of Shear Localization at High-Strain Rates for Materials <b>2012</b> , 111-171		1
267	The Structure, Functions, and Mechanical Properties of Keratin. <i>Jom</i> , <b>2012</b> , 64, 449-468	2.1	190
266	Battle in the Amazon: Arapaima versus Piranha. <i>Advanced Engineering Materials</i> , <b>2012</b> , 14, B279-B288	3.5	67
265	Flexible Dermal Armor in Nature. <i>Jom</i> , <b>2012</b> , 64, 475-485	2.1	27
264	Quasi-static and dynamic response of explosively consolidated metal luminum powder mixtures. <i>Acta Materialia</i> , <b>2012</b> , 60, 1418-1432	8.4	43
263	Response of Ni/Al laminates to laser-driven compression. <i>Acta Materialia</i> , <b>2012</b> , 60, 3929-3942	8.4	26
262	Microchannelled hydroxyapatite components by sequential freeze drying and free pressureless spark plasma sintering. <i>Advances in Applied Ceramics</i> , <b>2012</b> , 111, 269-274	2.3	9
261	Growth and collapse of nanovoids in tantalum monocrystals loaded at high strain rate 2012,		2
260	Laser compression of nanocrystalline tantalum <b>2012</b> ,		2

259	Predation versus protection: Fish teeth and scales evaluated by nanoindentation. <i>Journal of Materials Research</i> , <b>2012</b> , 27, 100-112	2.5	63
258	Potential Bone Replacement Materials Prepared by Two Methods. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1418, 177		39
257	Mechanical properties and the laminate structure of Arapaima gigas scales. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2011</b> , 4, 1145-56	4.1	114
256	Structure and mechanical properties of Saxidomus purpuratus biological shells. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2011</b> , 4, 1514-30	4.1	48
255	Reaction in NiAl laminates by laser-shock compression and spalling. Acta Materialia, 2011, 59, 5276-528	78.4	27
254	Effects of geometry and intermetallic bonding on the mechanical response, spalling and fragmentation of NiAl laminates. <i>Acta Materialia</i> , <b>2011</b> , 59, 5869-5880	8.4	19
253	Armadillo armor: mechanical testing and micro-structural evaluation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2011</b> , 4, 713-22	4.1	98
252	Correlation of the mechanical and structural properties of cortical rachis keratin of rectrices of the Toco Toucan (Ramphastos toco). <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2011</b> , 4, 723-32	4.1	33
251	Growth and collapse of nanovoids in tantalum monocrystals. <i>Acta Materialia</i> , <b>2011</b> , 59, 1354-1372	8.4	71
250	Growth of nacre in abalone: Seasonal and feeding effects. <i>Materials Science and Engineering C</i> , <b>2011</b> , 31, 238-245	8.3	20
249	Structural characterization and mechanical behavior of a bivalve shell (Saxidomus purpuratus). <i>Materials Science and Engineering C</i> , <b>2011</b> , 31, 724-729	8.3	55
248	Dynamic nanoindentation of articular porcine cartilage. <i>Materials Science and Engineering C</i> , <b>2011</b> , 31, 789-795	8.3	48
247	Reprint of: Growth of nacre in abalone: Seasonal and feeding effects. <i>Materials Science and Engineering C</i> , <b>2011</b> , 31, 716-723	8.3	6
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