David Bahr

List of Publications by Year in descending order

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265 papers 6,945 citations

45 h-index 79698 73 g-index

268 all docs 268 docs citations

268 times ranked 5714 citing authors

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| 1 | Non-linear deformation mechanisms during nanoindentation. Acta Materialia, 1998, 46, 3605-3617. | 7.9 | 355 |
| 2 | Efficiency of energy conversion for devices containing a piezoelectric component. Journal of Micromechanics and Microengineering, 2004, 14, 717-721. | 2.6 | 233 |
| 3 | Thermal and mechanical properties of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/cellulose nanowhiskers composites. Polymer, 2010, 51, 2652-2660. | 3.8 | 213 |
| 4 | Hydrogen effects on dislocation activity in austenitic stainless steel. Acta Materialia, 2006, 54, 2677-2684. | 7.9 | 202 |
| 5 | Yield strength predictions from the plastic zone around nanocontacts. Acta Materialia, 1998, 47, 333-343. | 7.9 | 197 |
| 6 | Plastic strain and strain gradients at very small indentation depths. Acta Materialia, 2001, 49, 1021-1034. | 7.9 | 162 |
| 7 | Multiscale modeling and simulation of deformation in nanoscale metallic multilayer systems. International Journal of Plasticity, 2014, 52, 33-50. | 8.8 | 128 |
| 8 | Mechanical properties of cubic zinc carboxylate IRMOF-1 metal-organic framework crystals. Physical Review B, 2007, 76, . | 3.2 | 124 |
| 9 | Analysis of heterogeneous deformation and dislocation dynamics in single crystal micropillars under compression. International Journal of Plasticity, 2010, 26, 239-257. | 8.8 | 120 |
| 10 | Design, fabrication and testing of the P3 micro heat engine. Sensors and Actuators A: Physical, 2003, 104, 290-298. | 4.1 | 108 |
| 11 | Analysis of plastic deformation in nanoscale metallic multilayers with coherent and incoherent interfaces. International Journal of Plasticity, 2011, 27, 1618-1639. | 8.8 | 108 |
| 12 | Effects of Cellulose Nanowhiskers on Mechanical, Dielectric, and Rheological Properties of Poly(3-hydroxybutyrate- <i>co</i> -3-hydroxyvalerate)/Cellulose Nanowhisker Composites. Industrial & Engineering Chemistry Research, 2012, 51, 2941-2951. | 3.7 | 108 |
| 13 | Molecular dynamics simulations of plastic deformation in Nb/NbC multilayers. International Journal of Plasticity, 2014, 59, 119-132. | 8.8 | 102 |
| 14 | Characterization of flexible ECoG electrode arrays for chronic recording in awake rats. Journal of Neuroscience Methods, 2008, 173, 279-285. | 2.5 | 99 |
| 15 | Direct observation of plasticity and quantitative hardness measurements in single crystal cyclotrimethylene trinitramine by nanoindentation. Philosophical Magazine, 2009, 89, 2381-2402. | 1.6 | 98 |
| 16 | The coordinated buckling of carbon nanotube turfs under uniform compression. Nanotechnology, 2008, 19, 175704. | 2.6 | 97 |
| 17 | Elastic loading and elastoplastic unloading from nanometer level indentations for modulus determinations. Journal of Materials Research, 1998, 13, 421-439. | 2.6 | 96 |
| 18 | Optimization of electromechanical coupling for a thin-film PZT membrane: I. Modeling. Journal of Micromechanics and Microengineering, 2005, 15, 1797-1803. | 2.6 | 93 |

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| 19 | Mechanical behavior of a carbon nanotube turf. Scripta Materialia, 2007, 56, 157-160. | 5.2 | 93 |
| 20 | A MEMS fabricated flexible electrode array for recording surface field potentials. Journal of Neuroscience Methods, 2006, 153, 147-153. | 2.5 | 89 |
| 21 | Nanoindentation-induced defect–interface interactions: phenomena, methods and limitations. Acta Materialia, 1999, 47, 4115-4123. | 7.9 | 86 |
| 22 | The influence of cellulose nanocrystals on the microstructure of cement paste. Cement and Concrete Composites, 2016, 74, 164-173. | 10.7 | 86 |
| 23 | Adhesion measurements using telephone cord buckles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 443, 150-155. | 5.6 | 85 |
| 24 | Energy considerations regarding yield points during indentation. Journal of Materials Research, 1999, 14, 2269-2275. | 2.6 | 81 |
| 25 | Mechanical behavior assessment of sucrose using nanoindentation. Journal of Materials Research, 2007, 22, 2037-2045. | 2.6 | 80 |
| 26 | Optimization of electromechanical coupling for a thin-film PZT membrane: II. Experiment. Journal of Micromechanics and Microengineering, 2005, 15, 1804-1809. | 2.6 | 79 |
| 27 | A resonant frequency tunable, extensional mode piezoelectric vibration harvesting mechanism. Smart Materials and Structures, 2008, 17, 065021. | 3.5 | 77 |
| 28 | Shock engineering the additive manufactured graphene-metal nanocomposite with high density nanotwins and dislocations for ultra-stable mechanical properties. Acta Materialia, 2018, 150, 360-372. | 7.9 | 77 |
| 29 | Mechanical compliance of photolithographically defined vertically aligned carbon nanotube turf. Journal of Materials Science, 2006, 41, 7872-7878. | 3.7 | 76 |
| 30 | Deformation mechanisms and strength in nanoscale multilayer metallic composites with coherent and incoherent interfaces. Applied Physics Letters, 2009, 94, . | 3.3 | 76 |
| 31 | Recent Developments in Thin Film Adhesion Measurement. IEEE Transactions on Device and Materials Reliability, 2004, 4, 163-168. | 2.0 | 74 |
| 32 | Crystal orientation effect on dislocation nucleation and multiplication in FCC single crystal under uniaxial loading. International Journal of Plasticity, 2014, 52, 133-146. | 8.8 | 74 |
| 33 | Adhesion and acoustic emission analysis of failures in nitride films with a metal interlayer. Acta Materialia, 1997, 45, 5163-5175. | 7.9 | 68 |
| 34 | Adhesive properties of some fluoropolymer binders with the insensitive explosive 1,3,5-triamino-2,4,6-trinitrobenzene (TATB). Journal of Colloid and Interface Science, 2010, 352, 535-541. | 9.4 | 60 |
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| 39 | Dislocation Nucleation and Source Activation during Nanoindentation Yield Points. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 2249-2255. | 2.2 | 55 |
| 40 | The impact of a variety of point defects on the inception of plastic deformation in dislocation-free metals. Scripta Materialia, 2012, 66, 339-342. | 5.2 | 52 |
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| 42 | Efficiency of energy conversion by piezoelectrics. Applied Physics Letters, 2006, 89, 104107. | 3.3 | 49 |
| 43 | Improved electro-mechanical performance of gold films on polyimide without adhesion layers. Scripta Materialia, 2015, 102, 23-26. | 5.2 | 49 |
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| 45 | Local and non-local behavior and coordinated buckling of CNT turfs. Carbon, 2011, 49, 1430-1438. | 10.3 | 47 |
| 46 | Effect of Solid Solution Impurities on Dislocation Nucleation During Nanoindentation. Journal of Materials Research, 2005, 20, 1947-1951. | 2.6 | 45 |
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| 50 | The effects of plasticity on adhesion of hard films on ductile interlayers. Acta Materialia, 2005, 53, 2555-2562. | 7.9 | 41 |
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| 52 | Power production by a dynamic micro heat engine with an integrated thermal switch. Journal of Micromechanics and Microengineering, 2007, 17, S217-S223. | 2.6 | 40 |
| 53 | Effect of accelerated aging on dental zirconia-based materials. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 256-263. | 3.1 | 40 |
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| 59 | Effects of alloy and solution chemistry on the fracture of passive films on austenitic stainless steel. Corrosion Science, 2006, 48, 925-936. | 6.6 | 32 |
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| 107 | Molecular dynamic simulation of heat pulse propagation in multiwall carbon nanotubes. Physical Review B, 2007, 76, . | 3.2 | 15 |
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| 117 | Nanomechanical properties of ordered phthalocyanine Langmuir–Blodgett layers. Journal of Materials Research, 2004, 19, 1461-1470. | 2.6 | 14 |
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| 137 | An energy-based nanoindentation method to assess localized residual stresses and mechanical properties on shot-peened materials. Journal of Materials Research, 2019, 34, 1121-1129. | 2.6 | 11 |
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| 141 | Phenomenological constitutive model for a CNT turf. International Journal of Solids and Structures, 2013, 50, 2224-2230. | 2.7 | 10 |
| 142 | The effect of interfacial imperfections on plastic deformation in nanoscale metallic multilayer composites. Computational Materials Science, 2014, 86, 118-123. | 3.0 | 10 |
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