Sarah C Baxter

List of Publications by Year
in descending order

35 papers	3,426 citations	430874 18 h-index	395702 33 g-index
36 all docs	36 docs citations	36 times ranked	5079 citing authors

#	Article	IF	Citations
1	Gold Nanoparticles in Biology: Beyond Toxicity to Cellular Imaging. Accounts of Chemical Research, 2008, 41, 1721-1730.	15.6	1,637
2	Characterization of Molecularly Imprinted Polymers with the Langmuirâ˜Freundlich Isotherm. Analytical Chemistry, 2001, 73, 4584-4591.	6.5	457
3	Characterization of the heterogeneous binding site affinity distributions in molecularly imprinted polymers. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 804, 141-149.	2.3	272
4	Application of the Freundlich adsorption isotherm in the characterization of molecularly imprinted polymers. Analytica Chimica Acta, 2001, 435, 35-42.	5.4	239
5	Pseudo-percolation: Critical volume fractions and mechanical percolation in polymer nanocomposites. Composites Science and Technology, 2011, 71, 1273-1279.	7.8	119
6	Using Gold Nanorods to Probe Cell-Induced Collagen Deformation. Nano Letters, 2007, 7, 116-119.	9.1	102
7	Characterization of Random Composites Using Moving-Window Technique. Journal of Engineering Mechanics - ASCE, 2000, 126, 389-397.	2.9	83
8	Effects of curvilinear anisotropy on radially symmetric stresses in anisotropic linearly elastic solids. Journal of Elasticity, 1996, 42, 31-48.	1.9	45
9	The Effect of Gold Nanorods on Cell-Mediated Collagen Remodeling. Nano Letters, 2008, 8, 3409-3412.	9.1	45
10	Simulation of local material properties based on moving-window GMC. Probabilistic Engineering Mechanics, 2001, 16, 295-305.	2.7	44
11	Three-dimensional evolution of mechanical percolation in nanocomposites with random microstructures. Probabilistic Engineering Mechanics, 2012, 30, 1-8.	2.7	44
12	Analysis of Heterogeneous Composites Based on Moving-Window Techniques. Journal of Engineering Mechanics - ASCE, 2003, 129, 1054-1064.	2.9	37
13	Micromechanics based random material property fields for particulate reinforced composites. International Journal of Solids and Structures, 2001, 38, 9209-9220.	2.7	36
14	Light scattering from gold nanorods: tracking material deformation. Nanotechnology, 2005, 16, 2601-2605.	2.6	36
15	Adaptive Changes in Cardiac Fibroblast Morphology and Collagen Organization as a Result of Mechanical Environment. Cell Biochemistry and Biophysics, 2008, 51, 33-44.	1.8	36
16	Effects of scale and interface on the three-dimensional micromechanics of polymer nanocomposites. Journal of Composite Materials, 2011, 45, 2537-2546.	2.4	34
17	Voronoi tessellation based statistical volume element characterization for use in fracture modeling. Computer Methods in Applied Mechanics and Engineering, 2018, 336, 135-155.	6.6	24
18	End effects for anti-plane shear deformations of sandwich structures. Journal of Elasticity, 1995, 40, 123-164.	1.9	22

#	Article	IF	Citations
19	Mechanical percolation in nanocomposites: Microstructure and micromechanics. Probabilistic Engineering Mechanics, 2016, 44, 35-42.	2.7	21
20	Age-Dependent Expression of Collagen Receptors and Deformation of Type I Collagen Substrates by Rat Cardiac Fibroblasts. Microscopy and Microanalysis, 2011, 17, 555-562.	0.4	16
21	A framework for stochastic mechanics. Probabilistic Engineering Mechanics, 2006, 21, 247-255.	2.7	15
22	Anti-plane shear deformations of anisotropic sandwich structures: End effects. International Journal of Solids and Structures, 1997, 34, 79-98.	2.7	14
23	Impulse response evaluation of drilled shafts with pile caps: modeling and experiment. Canadian Journal of Civil Engineering, 2004, 31, 169-177.	1.3	12
24	Distributions of elastic moduli in mechanically percolating composites. Probabilistic Engineering Mechanics, 2013, 34, 67-72.	2.7	6
25	Stress and Plastic Strain Fields during Unconstrained and Constrained Fabrication Cool Down of Fiber-Reinforced IMCs. Journal of Composite Materials, 1999, 33, 351-376.	2.4	5
26	Enhancement of Heat Transfer with Inclined Baffles and Ribs Combined. Journal of Enhanced Heat Transfer, 2002, 9, 137-151.	1.1	4
27	Modeling anisotropic hardening with a stochastic cellular automaton. Probabilistic Engineering Mechanics, 2004, 19, 3-8.	2.7	4
28	Modeling the effects of material non-linearity using moving window micromechanics. International Journal of Non-Linear Mechanics, 2005, 40, 351-359.	2.6	4
29	High-Aspect-Ratio Gold Nanorods: Their Synthesis and Application to Image Cell-Induced Strain Fields in Collagen Films. Methods in Molecular Biology, 2013, 1026, 1-20.	0.9	4
30	The effect of fiber architecture on the inelastic response of metal matrix composites with interfacial and fiber damage. Studies in Applied Mechanics, 1996, 44, 235-257.	0.4	3
31	Kinematic hardening in a dispersion strengthened aluminum alloy: experiment and modeling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 285, 265-279.	5.6	3
32	Degradation of Elastic Response of MMC Laminated Tubes due to Internal Fiber Cracks. Journal of Aerospace Engineering, 1997, 10, 43-48.	1.4	2
33	Probabilistic modeling and simulation of wave speeds in random composites. Probabilistic Engineering Mechanics, 2020, 59, 103046.	2.7	0
34	Collagen Organization during Cardiac Fibroblastâ€mediated Collagen Gel Contraction. FASEB Journal, 2006, 20, LB57.	0.5	0
35	Diffusion Linked Solidification Model of Axisymmetric Growth of Gold Nanorods. Solid Mechanics and Its Applications, 2009, , 199-210.	0.2	0