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MECHANICS OF BIOLOGICAL AND BIOMIMETIC MATERIALS AT SMALL LENGTH-SCALES

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1878–1892 Fracture, aging, and disease in bone

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1893–1905 Nanoindentation: Application to dental hard tissue investigations

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1931–1938 Example of microprocessing in a natural polymeric fiber: Role of reeling stress in spider silk

M. Elices, G.V. Guinea, G.R. Plaza,
J.I. Real, J. Pérez-Rigueiro

1939–1946 Crystal growth via spiral motion in abalone shell nacre

Nan Yao, Alexander Epstein,
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1947–1961 Atomistic and continuum modeling of mechanical properties of collagen: Elasticity, fracture, and self-assembly

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1962–1968 Hydration effects on the micro-mechanical properties of bone

A.K. Bembey, A.J. Bushby,
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1969–1976 Mapping the structure, composition and mechanical properties of bamboo

I.M. Low, Z.Y. Che, B.A. Latella

1977–1986 Mechanical properties of nacre constituents and their impact on mechanical performance

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1987–1995 Hardness and elastic properties of dehydrated cuticle from the lobster *Homarus americanus* obtained by nanoindentation

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1996–2002 Nanomechanics and morphology of salivary pellicle

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2003–2010 Spherical indentation load-relaxation of soft biological tissues

Jason M. Mattice, Anthony G. Lau,
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2011–2017 Computer aided adhesive and assembly optimization method: Biomimetic optimization of adhesive joints

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