# Fabrizio Cleri

## List of Publications by Citations



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|---|---|---|---|
| 140 papers | 3,713 citations | 27 h-index | 59 g-index |
| 156 ext. papers | 3,962 ext. citations | 3.2 avg, IF | 5.46 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 140 | Tight-binding potentials for transition metals and alloys. *Physical Review B*, **1993**, 48, 22-33 | 3.3 | 1625 |
| 139 | Turning carbon nanotubes from exceptional heat conductors into insulators. *Physical Review Letters*, **2009**, 102, 105901 | 7.4 | 249 |
| 138 | Atomic-Scale Mechanism of Crack-Tip Plasticity: Dislocation Nucleation and Crack-Tip Shielding. *Physical Review Letters*, **1997**, 79, 1309-1312 | 7.4 | 94 |
| 137 | Atomic scale origin of crack resistance in brittle fracture. *Physical Review Letters*, **2005**, 95, 115501 | 7.4 | 71 |
| 136 | Thermal conductivity from approach-to-equilibrium molecular dynamics. *Journal of Applied Physics*, **2013**, 114, 033525 | 2.5 | 68 |
| 135 | On the electrical activity of sp 2 -bonded grain boundaries in nanocrystalline diamond. *Europhysics Letters*, **1999**, 46, 671-677 | 1.6 | 56 |
| 134 | Atomistic Simulations of Materials Fracture and the Link between Atomic and Continuum Length Scales. *Journal of the American Ceramic Society*, **2005**, 81, 501-516 | 3.8 | 55 |
| 133 | Thermal boundary resistance at silicon-silica interfaces by molecular dynamics simulations. *Applied Physics Letters*, **2012**, 100, 131906 | 3.4 | 52 |
| 132 | Contact resistance in percolating networks. *Physical Review B*, **2004**, 69, | 3.3 | 52 |
| 131 | Atomic hydrogen adsorption on a Stone□Wales defect in graphite. *Surface Science*, **2002**, 496, 33-38 | 1.8 | 50 |
| 130 | On the Nature of Grain Boundaries in Nanocrystalline Diamond. *MRS Bulletin*, **1998**, 23, 36-41 | 3.2 | 48 |
| 129 | Elasticity of flexible and semiflexible polymers with extensible bonds in the Gibbs and Helmholtz ensembles. *Journal of Chemical Physics*, **2012**, 136, 154906 | 3.9 | 39 |
| 128 | Role of surface chemistry in hydrogen adsorption in single-wall carbon nanotubes. *Chemical Physics Letters*, **2003**, 371, 476-482 | 2.5 | 39 |
| 127 | Molecular dynamics simulation of the recrystallization of amorphous Si layers: Comprehensive study of the dependence of the recrystallization velocity on the interatomic potential. *Journal of Applied Physics*, **2007**, 101, 123506 | 2.5 | 38 |
| 126 | Interaction of benzene thiol and thiolate with small gold clusters. *Journal of Chemical Physics*, **2004**, 120, 10062-8 | 3.9 | 38 |
| 125 | Representation of mechanical loads in molecular dynamics simulations. *Physical Review B*, **2001**, 65, | 3.3 | 38 |
| 124 | Surface-induced optimal packing of two-dimensional molecular networks. *Physical Review Letters*, **2015**, 114, 066101 | 7.4 | 37 |

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| 123 | Theory and Monte Carlo simulations for the stretching of flexible and semiflexible single polymer chains under external fields. *Journal of Chemical Physics*, **2012**, 137, 244907 | 3.9 | 35 |
| 122 | Chemisorption of atomic hydrogen in graphite and carbon nanotubes. *Surface Science*, **2003**, 544, 24-34 | 1.8 | 35 |
| 121 | Experimental and theoretical investigation of the order-disorder transformation in Ni3Al. *Journal of Materials Research*, **1993**, 8, 2504-2509 | 2.5 | 35 |
| 120 | Atomic-scale modeling of the interaction between short polypeptides and carbon surfaces. *Journal of Physical Chemistry B*, **2009**, 113, 12105-12 | 3.4 | 32 |
| 119 | Correlation between atomic structure and localized gap states in silicon grain boundaries. *Physical Review B*, **1998**, 57, 6247-6250 | 3.3 | 32 |
| 118 | Length dependence of thermal conductivity by approach-to-equilibrium molecular dynamics. *Physical Review B*, **2016**, 94, | 3.3 | 32 |
| 117 | Solid□quid interface velocity and diffusivity in laser-melt amorphous silicon. *Applied Physics Letters* , **2000**, 77, 2337-2339 | 3.4 | 31 |
| 116 | Two-state theory of single-molecule stretching experiments. *Physical Review E*, **2013**, 87, | 2.4 | 28 |
| 115 | Thermal conductivity of glassy GeTe by first-principles molecular dynamics. *Physical Chemistry Chemical Physics*, **2017**, 19, 9729-9732 | 3.6 | 27 |
| 114 | On the equivalence of thermodynamics ensembles for flexible polymer chains. *Physica A: Statistical Mechanics and Its Applications*, **2014**, 395, 154-170 | 3.3 | 27 |
| 113 | Atomic Scale Modeling of Two-Dimensional Molecular Self-Assembly on a Passivated Si Surface. *Journal of Physical Chemistry C*, **2014**, 118, 12817-12825 | 3.8 | 26 |
| 112 | A stochastic grain growth model based on a variational principle for dissipative systems. *Physica A: Statistical Mechanics and Its Applications*, **2000**, 282, 339-354 | 3.3 | 25 |
| 111 | Atomistic study of the interaction between a microcrack and a hard inclusion in □iC. *Physical Review B*, **2004**, 70, | 3.3 | 22 |
| 110 | Order-disorder transition in Cu3Au: A combined molecular-dynamics and cluster-variation-method approach. *Physical Review B*, **1993**, 47, 14541-14544 | 3.3 | 22 |
| 109 | Lattice dynamics of ordered and disordered Cu3 Au with a tight-binding potential model. *Philosophical Magazine Letters*, **1993**, 67, 369-378 | 1 | 22 |
| 108 | Atomistic Simulations of Integranular Fracture in Symmetric-Tilt Grain Boundaries. *Journal of Materials Science*, **1999**, 7, 45-55 | | 21 |
| 107 | Real-time mechanical characterization of DNA degradation under therapeutic X-rays and its theoretical modeling. *Microsystems and Nanoengineering*, **2016**, 2, 16062 | 7.7 | 20 |
| 106 | Supramolecular self-assembly on the B-Si(111)-(□x□) R30° surface: From single molecules to multicomponent networks. *Surface Science Reports*, **2017**, 72, 316-349 | 12.9 | 19 |

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| 105 | Interface structure of silicon nanocrystals embedded in an amorphous silica matrix. *Solid State Sciences*, **2010**, 12, 163-171 | 3.4 | 18 |
| 104 | Atomic and electronic structure of high-energy grain boundaries in silicon and carbon. *Computational Materials Science*, **2001**, 20, 351-362 | 3.2 | 18 |
| 103 | Molecular dynamics of ionic self-diffusion at an MgO grain boundary. *Journal of Materials Science*, **2015**, 50, 2502-2509 | 4.3 | 17 |
| 102 | Scaling shift in multicracked fiber bundles. *Physical Review Letters*, **2014**, 113, 255501 | 7.4 | 17 |
| 101 | Triple junctions and elastic stability of polycrystalline silicon. *Physical Review B*, **2000**, 63, | 3.3 | 17 |
| 100 | Lattice instability analysis of a prototype intermetallic system under stress. *Journal of Applied Physics*, **1995**, 77, 1449-1458 | 2.5 | 17 |
| 99 | Atomistic simulation of dislocation nucleation and motion from a crack tip. *Acta Materialia*, **1997**, 45, 4993-5003 | 8.4 | 16 |
| 98 | Exceptional plasticity of silicon nanobridges. *Nanotechnology*, **2011**, 22, 355704 | 3.4 | 15 |
| 97 | Synthesis and Characterization of a Polycrystalline Ionic Thin Film by Large-Scale Molecular-Dynamics Simulation. *Journal of Materials Science*, **1999**, 7, 15-31 | | 15 |
| 96 | Fracture toughness of nanostructured silicon carbide. *Applied Physics Letters*, **2005**, 87, 141912 | 3.4 | 14 |
| 95 | Analysis of Sample and Fuel Pin Irradiation Experiments in PhÉnix for Basic Nuclear Data Validation. *Nuclear Science and Engineering*, **1990**, 105, 244-255 | 1.2 | 14 |
| 94 | High Conductance Ratio in Molecular Optical Switching of Functionalized Nanoparticle Self-Assembled Nanodevices. *Journal of Physical Chemistry C*, **2015**, 119, 21173-21183 | 3.8 | 13 |
| 93 | Localization and quantization in covalently bonded carbon nanotube junctions. *Physical Review B*, **2004**, 69, | 3.3 | 13 |
| 92 | On the occurrence of size effects in the calculation of thermal conductivity by first-principles molecular dynamics: The case of glassy GeTe4. *Journal of Non-Crystalline Solids*, **2018**, 498, 190-193 | 3.9 | 12 |
| 91 | Structure and mechanical characterization of DNA i-motif nanowires by molecular dynamics simulation. *Biophysical Journal*, **2013**, 105, 2820-31 | 2.9 | 12 |
| 90 | Microstructure evolution from the atomic scale up. *Computational Materials Science*, **2002**, 24, 21-27 | 3.2 | 12 |
| 89 | Response to "Comment on Elasticity of flexible and semiflexible polymers with extensible bonds in the Gibbs and Helmholtz ensembles"[J. Chem. Phys. 138, 157101 (2013)]. *Journal of Chemical Physics*, **2013**, 138, 157102 | 3.9 | 11 |
| 88 | Point-defect recombination efficiency at grain boundaries in irradiated SiC. *Physical Review B*, **2006**, 73, | 3.3 | 11 |

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| 87 | Mechanical Instability of Oxidized Metal Clusters. *Physical Review Letters*, **1996**, 77, 2495-2498 | 7.4 | 10 |
| 86 | Mechanical evolution of DNA double-strand breaks in the nucleosome. *PLoS Computational Biology*, **2018**, 14, e1006224 | 5 | 9 |
| 85 | Atomistic simulation of plasticity in silicon nanowires. *Applied Physics Letters*, **2010**, 97, 153106 | 3.4 | 9 |
| 84 | Microscopic mechanics of biomolecules in living cells. *Scientific Modeling and Simulation SMNS*, **2008** , 15, 339-362 | | 9 |
| 83 | A molecular dynamics simulation of the effects of excess free volume on the diffusion in metallic glasses. *Journal of Non-Crystalline Solids*, **1992**, 144, 187-195 | 3.9 | 9 |
| 82 | Fourier-like conduction and finite one-dimensional thermal conductivity in long silicon nanowires by approach-to-equilibrium molecular dynamics. *Physical Review B*, **2017**, 95, | 3.3 | 8 |
| 81 | Surface ordering of molecular structures by dispersion forces. *Physical Review B*, **2009**, 80, | 3.3 | 8 |
| 80 | Evolution of dislocation cell structures in plastically deformed metals. *Computer Physics Communications*, **2005**, 169, 44-49 | 4.2 | 7 |
| 79 | Vibrational modes of graphitic fragments and the nucleation of carbon nanotubes. *Journal of Chemical Physics*, **2001**, 115, 3308-3314 | 3.9 | 7 |
| 78 | Microstructure evolution at a triple junction in polycrystalline silicon. *Journal of Physics Condensed Matter*, **2002**, 14, 13003-13008 | 1.8 | 7 |
| 77 | Multiscale Modeling of Composite Materials by a Multifield Finite Element Approach. *International Journal for Multiscale Computational Engineering*, **2005**, 3, 463-480 | 2.4 | 7 |
| 76 | On the ability of molecular dynamics simulation and continuum electrostatics to treat interfacial water molecules in protein-protein complexes. *Scientific Reports*, **2016**, 6, 38259 | 4.9 | 7 |
| 75 | Interface thermal behavior in nanomaterials by thermal grating relaxation. *International Journal of Heat and Mass Transfer*, **2019**, 131, 932-943 | 4.9 | 7 |
| 74 | Stability of radiation-damaged DNA after multiple strand breaks. *Physical Chemistry Chemical Physics*, **2017**, 19, 14641-14651 | 3.6 | 6 |
| 73 | A two-phase model of large-strain plasticity in covalent nanostructures. *International Journal of Plasticity*, **2012**, 37, 31-52 | 7.6 | 6 |
| 72 | Monte Carlo simulations of single polymer force-extension relations. *Journal of Physics: Conference Series*, **2012**, 383, 012016 | 0.3 | 6 |
| 71 | Experimental and Theoretical Characterization of the 3D-Dopants Bias on the H Desorption of Mg Hydrides. *Materials Science Forum*, **2007**, 555, 349-354 | 0.4 | 6 |
| 70 | Phase stability of Ni$_3$Al solid solutions. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1993**, 68, 845-851 | | 6 |

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| 69 | Low-energy photon scattering simulations with the Monte Carlo code ACCEPT. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1990**, 295, 231-240 | 1.2 | 6 |
| 68 | On the validity of the Hartree approximation and the effect of short-range correlations in -condensation in finite nuclei. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1984**, 141, 33-36 | 4.2 | 6 |
| 67 | Stochastic mechanical degradation of multi-cracked fiber bundles with elastic and viscous interactions. *European Physical Journal E*, **2015**, 38, 131 | 1.5 | 5 |
| 66 | Detection of single DNA mismatches by force spectroscopy in short DNA hairpins. *Journal of Chemical Physics*, **2020**, 152, 074204 | 3.9 | 5 |
| 65 | A biophysical model of cell evolution after cytotoxic treatments: Damage, repair and cell response. *Journal of Theoretical Biology*, **2016**, 389, 146-58 | 2.3 | 5 |
| 64 | Energy band and vacuum level alignment at a semiconductor-molecule-metal interface. *Applied Physics Letters*, **2008**, 92, 103112 | 3.4 | 5 |
| 63 | Diffusion of boron in silicon: Compatibility of empirical molecular dynamics with continuum simulations. *Europhysics Letters*, **2006**, 76, 842-848 | 1.6 | 5 |
| 62 | Molecular dynamics calculation of the Zr(Ni) enthalpy of mixing. *Applied Physics Letters*, **1996**, 69, 1701-1703 | 3.4 | 5 |
| 61 | The Physics of Living Systems. *Undergraduate Lecture Notes in Physics*, **2016**, | 0.1 | 5 |
| 60 | Thermal conductivity of deca-nanometric patterned Si membranes by multiscale simulations. *International Journal of Heat and Mass Transfer*, **2018**, 126, 830-835 | 4.9 | 4 |
| 59 | Nano systems and devices for applications in biology and nanotechnology. *Solid-State Electronics*, **2016**, 115, 66-73 | 1.7 | 3 |
| 58 | Agent-based model of multicellular tumor spheroid evolution including cell metabolism. *European Physical Journal E*, **2019**, 42, 112 | 1.5 | 3 |
| 57 | Characteristic lengths in natural bundle assemblies arising from fiber-matrix energy competition: A floquet-based homogenization theory. *European Journal of Mechanics, A/Solids*, **2016**, 60, 145-165 | 3.7 | 3 |
| 56 | Multiscale modelling of molecular monolayers adsorbed on silicon. *Applied Physics A: Materials Science and Processing*, **2007**, 86, 293-300 | 2.6 | 3 |
| 55 | Screening and surface states in molecular monolayers adsorbed on silicon. *Journal of Physical Chemistry B*, **2006**, 110, 11496-503 | 3.4 | 3 |
| 54 | Kinetic proofreading of chromatin remodeling: from gene activation to gene repression and back. *AIMS Biophysics*, **2015**, 2, 398-411 | 0.8 | 3 |
| 53 | Radiation Environment and Doses on Mars at Oxia Planum and Mawrth Vallis: Support for Exploration at Sites With High Biosignature Preservation Potential. *Journal of Geophysical Research E: Planets*, **2021**, 126, e2020JE006488 | 4.1 | 3 |
| 52 | Deformation Localization in Molecular Layers Constrained between Self-Assembled Au Nanoparticles. *Langmuir*, **2017**, 33, 2677-2687 | 4 | 2 |

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| 51 | Tunneling mechanism and contact mechanics of colloidal nanoparticle assemblies. *Nanotechnology*, **2016**, 27, 475502 | 3.4 | 2 |
| 50 | Silicon Nanotweezers with a microfluidic cavity for the real time characterization of DNA damage under therapeutic radiation beams. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 6820 | 0.9 | 2 |
| 49 | Interacting Lewis-X carbohydrates in condensed phase: a first-principles molecular dynamics study. *Journal of Physical Chemistry B*, **2011**, 115, 12599-606 | 3.4 | 2 |
| 48 | Hydrogen Storage in MgH2 Matrices: An Ab-Initio Study of Mg-MgH2 Interface. *Solid State Phenomena*, **2008**, 139, 23-28 | 0.4 | 2 |
| 47 | What's so special about nanocrystalline semiconductors?. *International Journal of Computational Science and Engineering*, **2006**, 2, 242 | 0.4 | 2 |
| 46 | Vibrational modes of graphitic fragments and the nucleation of carbon nanotubes. *Materials Research Society Symposia Proceedings*, **2000**, 633, 1341 | | 2 |
| 45 | Defect energetics, thermal stability and localized electronic states in carbon nanotubes. *Materials Research Society Symposia Proceedings*, **2000**, 633, 1481 | | 2 |
| 44 | Stability of the ground state of finite nuclei against neutral pion condensation. *Physical Review C*, **1986**, 34, 1134-1136 | 2.7 | 2 |
| 43 | A stochastic force model for the ballistic-diffusive transition of heat conduction. *Physica Scripta*, **2020**, 95, 075703 | 2.6 | 1 |
| 42 | A Multiscale Approach for Composite Materials as Multifield Continua. *Materials Science Forum*, **2007**, 539-543, 2551-2556 | 0.4 | 1 |
| 41 | Quantum Dots from Carbon Nanotube Junctions. *Materials Research Society Symposia Proceedings*, **2003**, 789, 217 | | 1 |
| 40 | Triple Junctions in Polycrystalline Silicon: A Numerical Study Based upon Atomistic Simulations. *Key Engineering Materials*, **2001**, 221-222, 307-314 | 0.4 | 1 |
| 39 | Multiphase microstructure evolution model including dislocation plasticity. *Journal of Materials Research*, **2002**, 17, 1932-1940 | 2.5 | 1 |
| 38 | Ab-initio modelling of atomic and molecular Hydrogen adsorption in graphite. *Materials Research Society Symposia Proceedings*, **2001**, 677, 471 | | 1 |
| 37 | Deuterium clusters in a strained palladium lattice. *Journal of Materials Research*, **1990**, 5, 2094-2099 | 2.5 | 1 |
| 36 | Bragg's additivity rule and core and bond model studied by real-time TDDFT electronic stopping simulations: The case of water vapor. *Radiation Physics and Chemistry*, **2022**, 193, 109961 | 2.5 | 0 |
| 35 | Molecular Motors in the Cell. *Undergraduate Lecture Notes in Physics*, **2016**, 205-252 | 0.1 | 0 |
| 34 | Of Limbs, Wings and Fins. *Undergraduate Lecture Notes in Physics*, **2016**, 423-473 | 0.1 | |

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| 33 | Thermodynamics for Living Systems. *Undergraduate Lecture Notes in Physics*, **2016**, 9-59 | 0.1 |
| 32 | Entropic Forces in the Cell. *Undergraduate Lecture Notes in Physics*, **2016**, 159-203 | 0.1 |
| 31 | Bioelectricity, Hearts and Brains. *Undergraduate Lecture Notes in Physics*, **2016**, 253-316 | 0.1 |
| 30 | The Materials of the Living. *Undergraduate Lecture Notes in Physics*, **2016**, 367-421 | 0.1 |
| 29 | DNA i-motif provides steel-like tough ends to chromosomes. *Materials Research Society Symposia Proceedings*, **2014**, 1621, 135-141 | |
| 28 | Metallographic and Numerical Studies of the Role of Catalyst Particles of MgH2-Mg System. *Defect and Diffusion Forum*, **2010**, 297-301, 263-268 | 0.7 |
| 27 | Structural Disorder and Localized Gap States in Silicon Grain Boundaries from a Tight-Binding Model. *Materials Research Society Symposia Proceedings*, **1997**, 491, 513 | |
| 26 | Large Scale Atomistic Simulations using the Tight Binding Approach. *Materials Research Society Symposia Proceedings*, **1997**, 491, 481 | |
| 25 | Comparison Between Atomistic and Continuum-Mechanics Modelling of Grain-Boundary Fracture. *Materials Research Society Symposia Proceedings*, **1997**, 492, 377 | |
| 24 | Metallographic and numerical characterization of MgH2-Mg system. *Materials Research Society Symposia Proceedings*, **2008**, 1127, 1 | |
| 23 | Phonon instability in nanocrystalline silicon carbide. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 3311-3315 | 1.3 |
| 22 | ab-initio modelling of Mg:H interstitial solid solutions. *Materials Research Society Symposia Proceedings*, **2003**, 801, 120 | |
| 21 | Crack-tip stress shielding by a hard fiber in $\beta$SiC: an atomistic study. *Computer Physics Communications*, **2005**, 169, 40-43 | 4.2 |
| 20 | Dedicated hardware for linearly-scaling algorithms in condensed-matter physics. *Computer Physics Communications*, **2001**, 139, 20-33 | 4.2 |
| 19 | Identification of tetrahedrally coordinated atoms in supercooled liquid silicon. *Materials Research Society Symposia Proceedings*, **2000**, 638, 1 | |
| 18 | Atomistic models of triple junctions and the origin of topological changes in microstructural evolution. *Materials Research Society Symposia Proceedings*, **2000**, 652, 1 | |
| 17 | A microstructure evolution model including dislocation plasticity. *Materials Research Society Symposia Proceedings*, **2000**, 652, 1 | |
| 16 | A molecular dynamics investigation on grain disappearance at a triple junction in polycrystalline silicon. *Materials Research Society Symposia Proceedings*, **2001**, 677, 171 | |

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| 15 | Coupled atomistic-mesoscopic model of polycrystalline plasticity. *Materials Research Society Symposia Proceedings*, **2001**, 677, 761 | |
| 14 | Atomistic Aspects of Fracture Modelling in the Framework of Continuum Mechanics. *Materials Research Society Symposia Proceedings*, **1998**, 538, 441 | |
| 13 | Microscopic-scale simulations of macroscopic flow patterns in non-equilibrium two-dimensional systems **1994**, 17, 281-299 | |
| 12 | A Molecular Dynamics Study of the Terminal Zr(Ni) Solid Solutions. *Materials Research Society Symposia Proceedings*, **1995**, 400, 131 | |
| 11 | Atomistic Simulation of Crystal-to-Amorphous Transitions in the Intermetallic Alloys NiZr2 and Cu3Au. *Materials Research Society Symposia Proceedings*, **1992**, 278, 87 | |
| 10 | Order-Disorder Transformation in Cu3Au: A Molecular Dynamics Study. *Materials Research Society Symposia Proceedings*, **1992**, 291, 531 | |
| 9 | Atomic-Scale Investigation on Fracture Toughness in Nanocomposite Silicon Carbide **2006**, 41-42 | |
| 8 | Microscopic mechanics of biomolecules in living cells. *Lecture Notes in Computational Science and Engineering*, **2008**, 339-362 | 0.3 |
| 7 | The Mach-1 Code for Coupled Neutron, Photon and Electron Transport by the Monte Carlo Method **1992**, 315-322 | |
| 6 | Approach-to-Equilibrium Molecular Dynamics **2017**, 191-205 | |
| 5 | Shapes of the Living. *Undergraduate Lecture Notes in Physics*, **2016**, 475-526 | 0.1 |
| 4 | The Hidden Mathematics of Living Systems. *Undergraduate Lecture Notes in Physics*, **2016**, 527-572 | 0.1 |
| 3 | Energy, Information, and The Origins of Life. *Undergraduate Lecture Notes in Physics*, **2016**, 61-111 | 0.1 |
| 2 | Energy Production and Storage for Life. *Undergraduate Lecture Notes in Physics*, **2016**, 113-158 | 0.1 |
| 1 | Molecular Mechanics of the Cell. *Undergraduate Lecture Notes in Physics*, **2016**, 317-366 | 0.1 |