Eric P Fahrenthold

List of Publications by Year
in descending order

39 papers	323 citations	949033 11 h-index	1051228 16 g-index
39 all docs	39 docs citations	39 times ranked	210 citing authors

#	Article	IF	Citations
1	Mass specific performance of halogen and alkali metal based dopants in carbon nanotube wiring. Materials Today Communications, 2022, 30, 102983.	0.9	0
2	Functionalized semiconducting carbon nanotube arrays for gas phase explosives detection. Surface Science, 2022, 717, 121998.	0.8	4
3	Eddy current measurement of chemiresistive sensing transients in monolayer graphene. Applied Materials Today, 2022, 26, 101291.	2.3	2
4	Spin Current Sensing for Selective Detection of Explosive Molecules. ACS Applied Materials & Interfaces, 2022, 14, 4469-4478.	4.0	1
5	Explosive molecule sensing at lattice defect sites in metallic carbon nanotubes. Materials Advances, 2021, 2, 6315-6325.	2.6	7
6	Spin current distribution in antiferromagnetic zigzag graphene nanoribbons under transverse electric fields. Scientific Reports, 2021, 11, 17088.	1.6	3
7	Mass specific performance of potassium tetrabromoaurate as a carbon nanotube dopant. Computational Materials Science, 2021, 197, 110573.	1.4	4
8	Functionalized Metallic Carbon Nanotube Arrays for Gas Phase Explosives Detection. Computational and Theoretical Chemistry, 2021, 1205, 113460.	1.1	4
9	Graphene nanoribbons as flexible docks for chemiresistive sensing of gas phase explosives. Nanoscale, 2020, 12, 10730-10736.	2.8	12
10	Conductance of Buckled N = 5 Armchair Graphene Nanoribbons. Journal of Physical Chemistry Letters, 2020, 11, 1378-1383.	2.1	3
11	Conductance of Curved 3M – 1 Armchair Graphene Nanoribbons. Journal of Physical Chemistry C, 2019, 123, 21805-21812.	1.5	6
12	Potassium-Doped Graphene Nanoribbons for High-Specific Conductivity Wiring. ACS Applied Nano Materials, 2019, 2, 2873-2880.	2.4	6
13	Graphene-Based Sensing of Gas-Phase Explosives. ACS Applied Nano Materials, 2019, 2, 1445-1456.	2.4	18
14	Quantum Conductance of Copper–Carbon Nanotube Composites. Journal of Engineering Materials and Technology, Transactions of the ASME, 2018, 140, .	0.8	7
15	Ab Initio Study of Iodine-Doped Carbon Nanotube Conductors. Journal of Engineering Materials and Technology, Transactions of the ASME, 2018, 140, .	0.8	5
16	Magnetorheological Damping of Fragment Barrier Suspension Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	3
17	Simulation for Explosive Sensing Materials Design. , 2017, , .		0
18	Nonholonomic Hamiltonian method for molecular dynamics simulations of reacting shocks. AIP Conference Proceedings, 2017, , .	0.3	1

#	Article	IF	Citations
19	Computational Design of Metal–Fabric Orbital Debris Shielding. Journal of Spacecraft and Rockets, 2017, 54, 1060-1067.	1.3	7
20	Nonholonomic Formulation of Ab Initio Molecular Dynamics. Journal of Engineering Materials and Technology, Transactions of the ASME, 2017, 139, .	0.8	0
21	Impact Dynamics Simulation for Multilayer Fabrics of Various Weaves. AIAA Journal, 2015, 53, 1793-1811.	1.5	7
22	Computational evaluation of metal foam orbital debris shielding. , 2015, , .		2
23	Simulation of Orbital Debris Impact on Porous Ceramic Tiles. Journal of Spacecraft and Rockets, 2014, 51, 1349-1359.	1.3	10
24	Computational Design of Orbital Debris Shielding. , 2014, , .		3
25	Simulation of Orbital Debris Impact on Porous Ceramic Tiles. , 2013, , .		0
26	Effects of Weave Type on Ballistic Performance for Aramid, UHMWPE, and Hybrid Fabrics. , 2012, , .		2
27	Evaluation of magnetostrictive composite coated fabric as a fragment barrier material. Smart Materials and Structures, 2012, 21, 105027.	1.8	3
28	Effects of Weave Type on Ballistic Performance of Fabrics. AIAA Journal, 2012, 50, 2558-2565.	1.5	20
29	Simulation of Large Fragment Impacts on Neat and STF Kevlar Fabric Barriers. , 2011, , .		2
30	Simulation of Large Fragment Impacts on Shear-Thickening Fluid Kevlar Fabric Barriers. Journal of Aircraft, 2011, 48, 2059-2067.	1.7	11
31	Impact dynamics simulation for multilayer fabrics. International Journal for Numerical Methods in Engineering, 2010, 83, 537-557.	1.5	18
32	Simulation of orbital debris impact on the Space Shuttle wing leading edge. International Journal of Impact Engineering, 2006, 33, 231-243.	2.4	11
33	Simulation of Hypervelocity Impact Effects on Reinforced Carbon-Carbon. Journal of Spacecraft and Rockets, 2006, 43, 200-206.	1.3	9
34	A kernel free particle-finite element method for hypervelocity impact simulation. International Journal for Numerical Methods in Engineering, 2005, 63, 737-759.	1.5	32
35	Simulation of Foam-Impact Effects on the Space Shuttle Thermal Protection System. Journal of Spacecraft and Rockets, 2005, 42, 201-207.	1.3	7
36	Hamilton's Equations With Euler Parameters for Rigid Body Dynamics Modeling. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2004, 126, 124-130.	0.9	30

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37	An ellipsoidal particle–finite element method for hypervelocity impact simulation. International Journal for Numerical Methods in Engineering, 2004, 59, 737-753.	1.5	16
38	Extention and validation of a hybrid particle-finite element method for hypervelocity impact simulation. International Journal of Impact Engineering, 2003, 29, 237-246.	2.4	11
39	An improved hybrid particle-element method for hypervelocity impact simulation. International Journal of Impact Engineering, 2001, 26, 169-178.	2.4	36