CITATION REPORT List of articles citing

Direct mechanical measurement of the tensile strength and elastic modulus of multiwalled carbon nanotubes

DOI: 10.1016/s0921-5093(01)01807-x Materials Science & Samp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 334, 173-178.

Source: https://exaly.com/paper-pdf/34596372/citation-report.pdf

Version: 2024-04-09

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
890	Carbon Nanostructures. 2002 , 27, 227-356		647
889	Nanomaterials: on the Mechanics of Nanomaterials. 2003, 39, 1271-1293		59
888	Carbon nanotube fracture differences between quantum mechanical mechanisms and those of empirical potentials. 2003 , 382, 133-141		78
887	A review on polymer nanofibers by electrospinning and their applications in nanocomposites. 2003 , 63, 2223-2253		5915
886	Direct Observation of the Mechanical Properties of Single-Walled Carbon Nanotubes and Their Junctions at the Atomic Level. 2003 , 3, 751-755		135
885	The Effects of O2 Adsorbates on Field Emission Properties of Single-Wall Carbon Nanotubes: A Density Functional Theory Study. 2003 , 3, 1209-1214		35
884	Bond-breaking bifurcation states in carbon nanotube fracture. 2003 , 118, 9485-9488		101
883	Comparative theoretical study of single-wall carbon and boron-nitride nanotubes. 2003, 67,		128
882	Science and Technology of the Twenty-First Century: Synthesis, Properties, and Applications of Carbon Nanotubes. 2003 , 33, 419-501		773
881	Would Diamond Nanorods Be Stronger than Fullerene Nanotubes?. 2003, 3, 805-809		76
880	Hypothetical silicon nanotubes under axial compression. <i>Nanotechnology</i> , 2003 , 14, 402-408	3.4	25
879	Strain-rate and temperature dependent plastic yield in carbon nanotubes from ab initio calculations. 2004 , 84, 2775-2777		62
878	Realization of nanoscale resolution with a micromachined thermally actuated testing stage. 2004 , 75, 2154-2162		41
877	Carbon nanotube surface chemistry and its effects on interfacial nanomechanics. 2004 , 858, 260		1
876	Surface characteristics and wetting behavior of carbon nanotubes. 2004 , 858, 209		1
875	Fundamental Mechanical Properties of Carbon Nanotubes: Current Understanding and the Related Experimental Studies. 2004 , 126, 271-278		95
874	Mechanical behavior of individual WS2 nanotubes. 2004 , 19, 454-459		102

(2005-2004)

873	Local elastic properties of carbon nanotubes in the presence of Stone-Wales defects. 2004 , 69,		150
872	Prediction of elastic properties for single-walled carbon nanotubes. <i>Carbon</i> , 2004 , 42, 39-45	10.4	135
871	Simulation of Young's modulus of single-walled carbon nanotubes by molecular dynamics. 2004 , 352, 156-163		184
870	On the effective elastic moduli of carbon nanotubes for nanocomposite structures. <i>Composites Part B: Engineering</i> , 2004 , 35, 95-101	10	157
869	Mechanical behavior of functionalized nanotubes. 2004 , 387, 247-252		63
868	The role of vacancy defects and holes in the fracture of carbon nanotubes. 2004 , 390, 413-420		300
867	Introduction to Carbon Nanotubes. 2004 , 39-98		6
866	SWNT and MWNT Reinforced Carbon Nanocomposite Fibrils. 2004,		1
865	Carbon nanotube polymer composites. 2004 , 8, 31-37		693
864	Synthesis and characterization of multi-walled carbon nanotubes reinforced polyamide 6 via in situ polymerization. <i>Polymer</i> , 2005 , 46, 5125-5132	3.9	193
863	The role of atomistic simulations in probing the small-scale aspects of fracture∄ case study on a single-walled carbon nanotube. 2005 , 72, 2037-2071		57
862	X-ray diffraction of multiwalled carbon nanotube under high pressure: Structural durability on static compression. <i>Carbon</i> , 2005 , 43, 519-523	10.4	28
861	Nanocomposites in context. 2005 , 65, 491-516		1273
860	Effect of randomly occurring Stone Wales defects on mechanical properties of carbon nanotubes using atomistic simulation. <i>Nanotechnology</i> , 2005 , 16, 555-566	3.4	94
859	Modelling heat transfer of carbon nanotubes. 2005 , 13, 893-902		14
858	Preparation of Homogeneously Dispersed Multiwalled Carbon Nanotube/Polystyrene Nanocomposites via Melt Extrusion Using Trialkyl Imidazolium Compatibilizer. 2005 , 15, 910-916		198
857	Structural dependence of nonlinear elastic properties for carbon nanotubes using a continuum analysis. 2005 , 80, 1463-1468		15
856	Frictional anisotropy of oriented carbon nanotube surfaces. 2005 , 18, 59-62		124

855	Multiwalled carbon nanotube/polymer nanocomposites: Processing and properties. 2005, 43, 1186-1197	7	72
854	Comparison of the properties of waterborne polyurethane/multiwalled carbon nanotube and acid-treated multiwalled carbon nanotube composites prepared by in situ polymerization. 2005 , 43, 397	3-398	5 ¹⁴¹
853	A method to evaluate the tensile strength and stress-strain relationship of carbon nanofibers, carbon nanotubes, and C-chains. 2005 , 1, 640-4		15
852	Test Bed for Mechanical Characterization of Nanowires. 2005 , 219, 57-65		3
851	Direct contact buckling of electrochemically grown gold nanowires. 2005, 87, 173112		8
850	Scaling law in carbon nanotube electromechanical devices. 2005 , 95, 185504		32
849	In situ tensile testing of nanoscale freestanding thin films inside a transmission electron microscope. 2005 , 20, 1769-1777		76
848	Nanomechanical properties of silica-coated multiwall carbon nanotubes-poly(methyl methacrylate) composites. 2005 , 21, 3146-52		91
847	Static buckling and actuation of free-standing mesoscale beams. 2005 , 4, 655-659		8
846	52nd Hatfield Memorial Lecture Large chunks of very strong steel. 2005 , 21, 1293-1302		111
845	Vertically aligned carbon nanofibers and related structures: Controlled synthesis and directed assembly. 2005 , 97, 041301		534
844	Multiscale Model to Study the Effect of Interfaces in Carbon Nanotube-Based Composites. 2005 , 127, 222-232		94
843	Mechanics of defects in carbon nanotubes: Atomistic and multiscale simulations. 2005, 71,		205
842	Mechanical properties of connected carbon nanorings via molecular dynamics simulation. 2005 , 72,		54
841	Tensile and Compressive Behavior of Carbon Nanotubes: Effect of Functionalization and Topological Defects. <i>Mechanics of Advanced Materials and Structures</i> , 2006 , 13, 115-127	1.8	12
840	Scaled-up production of multi-walled carbon nanotubes using catalytic chemical vapour deposition. 2006 ,		
839	On the mechanical behavior of WS2 nanotubes under axial tension and compression. 2006 , 103, 523-8		233
838	Mechanical Characterization of a Single Nanofiber. 2006 , 121-137		2

(2006-2006)

837	Nonlinear stick-spiral model for predicting mechanical behavior of single-walled carbon nanotubes. 2006 , 74,		54
836	A comparison of different methods of Young modulus determination for single-wall carbon nanotubes (SWCNT) using molecular dynamics (MD) simulations. 2006 , 38, 271-281		76
835	Conceptual Modelling of Damping of CNT-Reinforced Materials. 2006, 1		
834	Magnetorheology of Multiwalled Carbon Nanotube Mineral Dispersions. 2006 , 919		
833	Tearing, folding and deformation of a carbondarbon sp2-bonded network. <i>Carbon</i> , 2006 , 44, 1544-1547	10.4	21
832	A critical review on nanotube and nanotube/nanoclay related polymer composite materials. <i>Composites Part B: Engineering</i> , 2006 , 37, 425-436	10	392
831	Reinforcement mechanisms in MWCNT-filled polycarbonate. 2006 , 66, 1162-1173		2 80
830	Prediction of Young modulus of single wall carbon nanotubes by molecular-mechanics based finite element modelling. 2006 , 66, 1597-1605		245
829	Role of atomic scale interfaces in the compressive behavior of carbon nanotubes in composites. 2006 , 66, 2030-2038		29
828	Efficient coating of N-doped carbon nanotubes with polystyrene using atomic transfer radical polymerization. 2006 , 419, 567-573		50
827	Preparation of carbon nanotubes over cobalt-containing catalysts via catalytic decomposition of methane. 2006 , 426, 345-350		55
826	Structural and mechanical properties of polymer nanocomposites. 2006 , 53, 73-197		1093
825	Ultra-strong gel-spun UHMWPE fibers reinforced using multiwalled carbon nanotubes. <i>Polymer</i> , 2006 , 47, 1604-1611	3.9	169
824	Large deformation mechanical behavior of flexible nanofiber filled polymer nanocomposites. <i>Polymer</i> , 2006 , 47, 2802-2812	3.9	56
823	Stability of the aqueous suspensions of nanotubes in the presence of nonionic surfactant. 2006 , 299, 740-6		90
822	Load transfer issues in the tensile and compressive behavior of multiwall carbon nanotubes. <i>Materials Science & Discourse and Processing</i> , 2006 , 429, 66-73	5.3	45
821	Specific features of the strength of carbon whiskers. 2006 , 32, 837-839		5
820	Mechanical compliance of photolithographically defined vertically aligned carbon nanotube turf. 2006 , 41, 7872-7878		71

819	Mechanical characterization of nanofibers 🖪 review. 2006 , 66, 1102-1111	219
818	On the effective thermal conductivity of carbon nanotube reinforced polymer composites. 2006 , 66, 1703-1712	91
817	The effect of multi-walled carbon nanotubes on the molecular orientation of poly(vinyl alcohol) in drawn composite films. 2006 , 7, 323-327	19
816	Pseudoreinforcement effect of multiwalled carbon nanotubes in epoxy matrix composites. 2006 , 102, 3664-3672	26
815	Augmentation of acrylic bone cement with multiwall carbon nanotubes. 2006, 77, 269-76	74
814	Fracture Transitions at a Carbon-Nanotube/Polymer Interface. 2006 , 18, 83-87	140
813	High-Strength Mats from Electrospun Poly(p-Phenylene Biphenyltetracarboximide) Nanofibers. 2006 , 18, 668-671	139
812	Sustained Growth of Ultralong Carbon Nanotube Arrays for Fiber Spinning. 2006 , 18, 3160-3163	307
811	Fracture resistance of zigzag single walled carbon nanotubes. <i>Nanotechnology</i> , 2006 , 17, 1323-1332 3.4	17
810	Fabrication and Mechanical Properties of MWNTs/Phenolic Nanocomposites. 2006 , 505-507, 121-126	7
809	Symmetry-, time-, and temperature-dependent strength of carbon nanotubes. 2006 , 103, 6105-9	208
808	Kink formation and motion in carbon nanotubes at high temperatures. 2006 , 97, 075501	70
807	Carbon nanotubes as nanoelectromechanical systems components. 2006 , 361-488	1
806	Atomic Simulation of Structure and Deformation's Influence on the Mechanical Properties of Single-walled Carbon Nanotubes. 2006 , 19, 294-300	2
805	Theoretical prediction of stress-induced phase transformations of the second kind in graphene. 2006 , 73,	8
804	Atomic geometry and energetics of carbon nanotube necking. 2007 , 87, 567-574	13
803	Nonlinear resonance in a three-terminal carbon nanotube resonator. <i>Nanotechnology</i> , 2007 , 18, 195203 3.4	13
802	Atomistic Failure Mechanism of Single Wall Carbon Nanotubes with Small Diameters. 2007 , 24, 165-168	7

(2007-2007)

801	Deformation of isolated single-wall carbon nanotubes in electrospun polymer nanofibres. Nanotechnology, 2007, 18, 235707 3.4	58
800	Hyperelastic behavior of single wall carbon nanotubes. 2007 , 101, 064316	3
799	Finite element modeling of single-walled carbon nanotubes with introducing a new wall thickness. 2007 , 61, 497-502	16
798	Dispersion of carbon nanotubes (CNTs) in aluminum powder. 2007 , 38, 646-650	342
797	Developing the mechanical models for nanomaterials. 2007 , 38, 1234-1250	64
796	Nanoscale fracture mechanics. 2007 , 58, 185-209	36
795	Ab initio calculation of ideal strength and phonon instability of graphene under tension. 2007, 76,	1042
794	Carbon Nanotube Polymer Composites: Recent Developments in Mechanical Properties. 2007, 585-598	4
793	High-performance carbon nanotube fiber. 2007 , 318, 1892-5	830
792	Electron beam machining of nanometer-sized tips from multiwalled boron nitride nanotubes. 2007 , 102, 024310	19
791	Mechanical Characteristics of FIB Deposited Carbon Nanowires Using an Electrostatic Actuated Nano Tensile Testing Device. 2007 , 16, 191-201	49
790	Effect of Environmental Temperatures on Elastic Properties of Single-Walled Carbon Nanotube. 2007 , 30, 1195-1210	31
789	Enhanced ductile behavior of tensile-elongated individual double-walled and triple-walled carbon nanotubes at high temperatures. 2007 , 98, 185501	51
788	A carbon nanotube field effect transistor with a suspended nanotube gate. 2007 , 7, 2291-4	17
787	Buckling and kinking force measurements on individual multiwalled carbon nanotubes. 2007, 76,	40
786	An electro-active shape memory fibre by incorporating multi-walled carbon nanotubes. 2007 , 16, 830-836	46
785	Dynamics and Vibration Damping Behavior of Advanced Meso/Nanoparticle-Reinforced Composites. <i>Mechanics of Advanced Materials and Structures</i> , 2007 , 14, 603-617	6
784	Fabrication of Carbon Nanotube Reinforced Aluminum Composite by Powder Extrusion Process. 2007 , 54, 627-634	1

783	Characterization of Geoinspired and Synthetic Chrysotile Nanotubes by Atomic Force Microscopy and Transmission Electron Microscopy. 2007 , 17, 3332-3338		46
782	Viscoelastic behavior and electrical properties of flexible nanofiber filled polymer nanocomposites. Influence of processing conditions. 2007 , 67, 829-839		162
781	Mechanical properties of high density polyethylene/carbon nanotube composites. 2007 , 67, 3071-3077		340
780	The effects of extensive pitting on the mechanical properties of carbon nanotubes. 2007 , 446, 128-132		23
779	Theoretical studies on the charge-induced failure of single-walled carbon nanotubes. <i>Carbon</i> , 2007 , 45, 922-930	10.4	30
778	Molecular mechanics modeling of carbon nanotube fracture. <i>Carbon</i> , 2007 , 45, 1769-1776	10.4	86
777	Characterization of SWCNT and PAN/SWCNT films. Carbon, 2007, 45, 2417-2423	10.4	13
776	Buckling and axially compressive properties of perfect and defective single-walled carbon nanotubes. <i>Carbon</i> , 2007 , 45, 2486-2495	10.4	51
775	A molecular-mechanics based finite element model for strength prediction of single wall carbon nanotubes. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 454-455, 170-177	5.3	42
774	Reversible high capacity nanocomposite anodes of Si/C/SWNTs for rechargeable Li-ion batteries. 2007 , 172, 650-658		93
773	Mechanical properties of ZnO nanowires. Sensors and Actuators A: Physical, 2007, 134, 169-176	3.9	162
772	Carbon nanotubes [becoming clean. 2007 , 10, 28-35		253
771	Strong carbon-nanotube fibers spun from long carbon-nanotube arrays. 2007 , 3, 244-8		330
770	Study of thermal and mechanical properties of composites based on arc-grown carbon nanotubes and heat-resistant cyanoether binder. 2007 , 49, 702-707		5
769	Effect of mechanical alloying time and carbon nanotube (CNT) content on the evolution of aluminum (Al)IINT composite powders. 2007 , 42, 4954-4959		130
768	Mechanical Properties of WS2 Nanotubes. 2007 , 18, 549-563		48
767	The influence of the matrix polarity on the morphology and properties of ethylene vinyl acetate		42
	copolymersBarbon nanotube nanocomposites. 2007 , 67, 1659-1665		

(2008-2008)

765	Bending buckling of single-walled carbon nanotubes by atomic-scale finite element. <i>Composites Part B: Engineering</i> , 2008 , 39, 202-208	10	35
764	Influence of twin-screw extrusion conditions on the dispersion of multi-walled carbon nanotubes in a poly(lactic acid) matrix. <i>Polymer</i> , 2008 , 49, 3500-3509	3.9	345
763	In situ TEM measurements of the mechanical properties and behavior of WS2 nanotubes. 2008 , 1, 22-31		48
762	Single-walled carbon-nanotube networks on large-area glass substrate by the dip-coating method. 2008 , 4, 2255-61		67
761	Mechanical properties of triple composites of polycarbonate, single-walled carbon nanotubes and carbon fibres. 2008 , 40, 2434-2439		30
760	Thermal sensitive shape recovery and mass transfer properties of polyurethane/modified MWNT composite membranes synthesized via in situ solution pre-polymerization. 2008 , 319, 102-110		43
759	Influence of injection molding parameters on the electrical resistivity of polycarbonate filled with multi-walled carbon nanotubes. 2008 , 68, 777-789		147
758	Removal of entrapped iron compounds from isothermally treated catalytic chemical vapor deposition derived multi-walled carbon nanotubes. <i>Carbon</i> , 2008 , 46, 391-396	10.4	18
757	Fabrication and mechanical properties of multi-walled carbon nanotubes/epoxy nanocomposites. <i>Materials Science & Discourse and Processing</i> , 2008 , 483-484, 289-292	5.3	86
756	Measurement of the elastic properties and intrinsic strength of monolayer graphene. 2008 , 321, 385-8		14811
756 755	Measurement of the elastic properties and intrinsic strength of monolayer graphene. 2008 , 321, 385-8 Electrospun nanofiber belts made from high performance copolyimide. <i>Nanotechnology</i> , 2008 , 19, 0156	50 /1 4	14811 46
		50 <u>44</u>	
755	Electrospun nanofiber belts made from high performance copolyimide. <i>Nanotechnology</i> , 2008 , 19, 0156 Effect of Long Multi-walled Carbon Nanotubes on Delamination Toughness of Laminated	5 04 4 3.4	46
755 754	Electrospun nanofiber belts made from high performance copolyimide. <i>Nanotechnology</i> , 2008 , 19, 0156 Effect of Long Multi-walled Carbon Nanotubes on Delamination Toughness of Laminated Composites. 2008 , 42, 5-23 The effect of two neighboring defects on the mechanical properties of carbon nanotubes.		46
755 754 753	Electrospun nanofiber belts made from high performance copolyimide. <i>Nanotechnology</i> , 2008 , 19, 0156 Effect of Long Multi-walled Carbon Nanotubes on Delamination Toughness of Laminated Composites. 2008 , 42, 5-23 The effect of two neighboring defects on the mechanical properties of carbon nanotubes. <i>Nanotechnology</i> , 2008 , 19, 065703 Theoretical Studies of the Interaction of an Open-Ended Boron Nitride Nanotube (BNNT) with Gas		46 47 13
755 754 753 752	Electrospun nanofiber belts made from high performance copolyimide. <i>Nanotechnology</i> , 2008 , 19, 0156 Effect of Long Multi-walled Carbon Nanotubes on Delamination Toughness of Laminated Composites. 2008 , 42, 5-23 The effect of two neighboring defects on the mechanical properties of carbon nanotubes. <i>Nanotechnology</i> , 2008 , 19, 065703 Theoretical Studies of the Interaction of an Open-Ended Boron Nitride Nanotube (BNNT) with Gas Molecules. 2008 , 112, 20206-20211		46 47 13 36
755 754 753 752 751	Electrospun nanofiber belts made from high performance copolyimide. <i>Nanotechnology</i> , 2008 , 19, 0156 Effect of Long Multi-walled Carbon Nanotubes on Delamination Toughness of Laminated Composites. 2008 , 42, 5-23 The effect of two neighboring defects on the mechanical properties of carbon nanotubes. <i>Nanotechnology</i> , 2008 , 19, 065703 Theoretical Studies of the Interaction of an Open-Ended Boron Nitride Nanotube (BNNT) with Gas Molecules. 2008 , 112, 20206-20211 Micromechanics Modeling of Polymer Nanocomposites for Use as Multifunctional Materials. 2008 , Molecular dynamics (MD) simulations of the dependence of CT bond lengths and bond angles on		46 47 13 36 2

747	Carbon nanotubes as interconnects: Emerging technology and potential reliability issues. 2008,		1
746	Elastic properties and morphology of individual carbon nanofibers. ACS Nano, 2008, 2, 1230-6	16.7	62
745	From Fulleranes and Icosahedral Diamondoids to Polyicosahedral Nanowires: Structural, Electronic, and Mechanical Characteristics. 2008 , 112, 11122-11129		10
744	A Micromechanics Model for the Thermal Conductivity of Nanotube-Polymer Nanocomposites. 2008 , 75,		29
743	Magnetorheology of Single-walled Carbon Nanotube Dispersions in Mineral Oil. 2008 , 19, 1143-1152		7
742	The quest for stronger, tougher materials. 2008 , 320, 448; author reply 448		23
741	Effect of nanotube-nanotube coupling on the radial breathing mode of carbon nanotubes. 2008 , 78,		8
740	Strength at the Interface of CNT Films Made by Surface Decomposition of SiC. 2008, 3, 352-355		2
739	SYNTHESIS AND CHARACTERIZATION OF CARBON NANOTUBES REINFORCED POLYMER NANOCOMPOSITES. 2009 , 08, 237-242		2
738	Geometry-Dependent Nonlinear Decrease of the Effective Young's Modulus of Single-walled Carbon Nanotubes Submitted to Large Tensile Loadings. 2009 , 17, 1-10		12
737	Unbinding force of chemical bonds and tensile strength in strong crystals. 2009 , 21, 485405		18
736	Scale and twist effects on the strength of nanostructured yarns and reinforced composites. <i>Nanotechnology</i> , 2009 , 20, 485702	3.4	30
735	Effect of Temperature on Elastic Properties of Single-Walled Carbon Nanotubes. 2009, 28, 551-569		14
734	Stretching behavior of a carbon nanowire encapsulated in a carbon nanotube. 2009 , 60, 129-132		10
733	Multifunctional Composites of Ceramics and Single-Walled Carbon Nanotubes. 2009 , 21, 1767-1770		97
732	Macroscopic single-walled-carbon-nanotube fiber self-assembled by dip-coating method. 2009 , 21, 435	7-61	36
731	Wedge test of carbon-nanotube-reinforced epoxy adhesive joints. 2009 , 111, 2957-2962		31
730	Processing and characterization of nanostructured Cu-carbon nanotube composites. <i>Materials Science & Materials Properties, Microstructure and Processing</i> , 2009 , 523, 60-64	5.3	76

729	Theoretical study of the P-Ylide reaction in the carbon nanotube. 2009 , 52, 1969-1972	3
728	Dispersion of multiwalled carbon nanotubes in aluminum powders. 2009 , 28, 175-180	14
727	Carbon nanotube capsules encapsulating SnO2 nanoparticles as an anode material for lithium ion batteries. 2009 , 55, 521-527	56
726	Mesomechanics of multiwall carbon nanotubes and nanowhiskers. 2009 , 12, 38-53	13
725	Computation of the loading diagram and the tensile strength of carbon nanotube networks. <i>Carbon</i> , 2009 , 47, 1327-1334	16
724	Thermally activated model for tensile yielding of pristine single-walled carbon nanotubes with nonlinear elastic deformation. <i>Carbon</i> , 2009 , 47, 2070-2076	9
723	The reduction of carbon nanotube (CNT) length during the manufacture of CNT/polymer composites and a method to simultaneously determine the resulting CNT and interfacial strengths. 10.4 Carbon, 2009 , 47, 3192-3200	95
722	A first-principles study on the elastic properties of single-walled carbon nanotubesg. 2009 , 223, 163-168	2
721	Can carbon nanotubes play a role in the field of nuclear waste management?. 2009, 43, 1250-5	80
720	Optical absorption and thermal transport of individual suspended carbon nanotube bundles. 2009 , 9, 590-4	63
719	Effect of surface energy on tensile deformation of nanotubes. 2009 , 42, 165410	6
718	A Micromechanics Model for the Electrical Conductivity of Nanotube-Polymer Nanocomposites. 2009 , 43, 917-941	141
717	Tensile Loading of Double-Walled and Triple-Walled Carbon Nanotubes and their Mechanical Properties. 2009 , 113, 17002-17005	41
716	A review of shape memory polymer composites and blends. 2009 , 40, 1661-1672	432
715	Carbon Nanotube Reinforced Conductors for Flexible Electronics. 2009 , 5, 232-235	7
7 ¹ 4	Multi-Walled Carbon Nanotubes Grown from Chemical Vapor: Links between Atomic near Range Order and Growth Parameters. 2009 , 113, 4307-4314	10
713	Synthesis of high purity multi-walled carbon nanotubes over Co-Mo/MgO catalyst by the catalytic chemical vapor deposition of methane. 2009 , 24, 119-123	47
712	Carbon Nanotubes, Multi-Walled. 2009 ,	

711	Effect of Processing Conditions on the Morphology and Properties of Polymer Nanocomposites. 369-405	1
710	Stick-Spiral Model for Studying Mechanical Properties of Carbon Nanotubes. 2010 , 297-322	
709	Properties, synthesis, and growth mechanisms of carbon nanotubes with special focus on thermal chemical vapor deposition. 2010 , 2, 1306-23	209
708	Dispersion control and characterization in multiwalled carbon nanotube and phenylethynyl-terminated imide composites. 2010 , 70, 822-828	15
707	A new technique for dispersion of carbon nanotube in a metal melt. <i>Materials Science & amp;</i> Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010 , 527, 5335-5340	65
706	Atomistic-based continuum modeling of the nonlinear behavior of carbon nanotubes. 2010 , 212, 167-179	58
705	Formation and conversion of carbon nanostructures under radiation. 2010 , 83, 849-862	5
704	Tensile tests on individual single-walled carbon nanotubes: linking nanotube strength with its defects. 2010 , 22, 4071-5	61
703	Model schematics of carbon-nanotube-based-nanomechanical-tuner using piezoelectric strain. 2010 , 42, 1995-1999	12
702	High accuracy curve fits for chirality, length and diameter dependent initial modulus of single walled carbon nanotubes. 2010 , 43, 252-255	5
701	Ultra-strength materials. 2010 , 55, 710-757	595
700	Multiscale computations for carbon nanotubes based on a hybrid QM/QC (quantum mechanical and quasicontinuum) approach. 2010 , 58, 86-102	9
699	Computational investigation of the electronic and structural properties of ultra small-diameter boron nitride nanotubes. 2010 , 405, 2542-2544	12
698	Dispersion of carbon nanotubes in hydroxyapatite powder by in situ chemical vapor deposition. 2010 , 166, 19-23	23
697	Synthesis and characterization of two dimensional graphene lamellae based PAn nanocomposites. 2010 , 519, 1059-1065	8
696	Wear characteristic of aluminum-based composites containing multi-walled carbon nanotubes. 2010 , 270, 12-18	128
695	Enhancement of delamination fatigue resistance in carbon nanotube reinforced glass fiber/polymer composites. 2010 , 70, 901-908	48
694	Comparative MD simulation study on the mechanical properties of a zigzag single-walled carbon nanotube in the presence of Stone-Thrower-Wales defects. 2010 , 92, 1701-1705	15

(2010-2010)

693	Mechanical performance of highly compressible multi-walled carbon nanotube columns with hyperboloid geometries. <i>Carbon</i> , 2010 , 48, 145-152	ļ 24	4
692	Tuning array morphology for high-strength carbon-nanotube fibers. 2010 , 6, 132-7	74	4
691	Nanowires with Unimaginable Characteristics. 2010 ,	1	
690	Advances in nanoparticle reinforcement in structural adhesives. 2010 , 151-182	8	
689	Carbon Nanotubes: A Solution for Processing Smart Biomaterials. 2010 , 441, 3-29	4	
688	A Note on Reinforcement of Polymer Matrix Composites Using Carbon Residues Derived From Woody Biomass. 2010 , 44, 1883-1892	Ο	
687	Chemistry of Soluble Carbon Nanotubes: Fundamentals and Applications. 2010, 301-331		
686	MEMS for In Situ Testing⊞andling, Actuation, Loading, and Displacement Measurements. 2010 , 35, 375-381	66	6
685	A MEMS tensile testing device for mechanical characterization of individual nanowires. 2010,	1	
684	Nanostructured hybrid silicon/carbon nanotube heterostructures: reversible high-capacity lithium-ion anodes. <i>ACS Nano</i> , 2010 , 4, 2233-41	46	60
68 ₄		' 46 16	
, i	lithium-ion anodes. ACS Nano, 2010, 4, 2233-41 Microscopic and Spectroscopic Studies of Thermally Enhanced Electrospun PMMA Micro- and		5
683	Microscopic and Spectroscopic Studies of Thermally Enhanced Electrospun PMMA Micro- and Nanofibers. 2010, 1, 866-869 Modified embedded atom method study of the mechanical properties of carbon nanotube	16	6
683	Microscopic and Spectroscopic Studies of Thermally Enhanced Electrospun PMMA Micro- and Nanofibers. 2010, 1, 866-869 Modified embedded atom method study of the mechanical properties of carbon nanotube reinforced nickel composites. 2010, 81, Carbon nanotube yarn and 3-D braid composites. Part I: Tensile testing and mechanical properties	16 26	6
683 682 681	Microscopic and Spectroscopic Studies of Thermally Enhanced Electrospun PMMA Micro- and Nanofibers. 2010, 1, 866-869 Modified embedded atom method study of the mechanical properties of carbon nanotube reinforced nickel composites. 2010, 81, Carbon nanotube yarn and 3-D braid composites. Part I: Tensile testing and mechanical properties analysis. 2010, 41, 230-237 Internal field emission and conductivity relaxation in carbon nanofiber filled polymer system. 2010,	16 26	6
683 682 681	Microscopic and Spectroscopic Studies of Thermally Enhanced Electrospun PMMA Micro- and Nanofibers. 2010, 1, 866-869 Modified embedded atom method study of the mechanical properties of carbon nanotube reinforced nickel composites. 2010, 81, Carbon nanotube yarn and 3-D braid composites. Part I: Tensile testing and mechanical properties analysis. 2010, 41, 230-237 Internal field emission and conductivity relaxation in carbon nanofiber filled polymer system. 2010, 160, 2085-2088	16 26 50	6 6 9
683 682 681 680	Microscopic and Spectroscopic Studies of Thermally Enhanced Electrospun PMMA Micro- and Nanofibers. 2010, 1, 866-869 Modified embedded atom method study of the mechanical properties of carbon nanotube reinforced nickel composites. 2010, 81, Carbon nanotube yarn and 3-D braid composites. Part I: Tensile testing and mechanical properties analysis. 2010, 41, 230-237 Internal field emission and conductivity relaxation in carbon nanofiber filled polymer system. 2010, 160, 2085-2088 Introduction to Carbon Nanotubes. 2010, 47-118 Characterization and Spark Plasma Sintering of Mechanically Milled Aluminum-Carbon Nanotube	16 26 50 7	5 5 3

675	Influence of odd and even number of Stone Wales defects on the fracture behaviour of an armchair single-walled carbon nanotube under axial and torsional strain. 2010 , 36, 409-417		8
674	In situ SEM observation of column-like and foam-like CNT array nanoindentation. 2011 , 3, 648-53		59
673	Comprehension of Nanocomposites. 2011 , 777-819		2
672	Three dimensional carbon-nanotube polymers. ACS Nano, 2011, 5, 7226-34	16.7	94
671	Joining carbon nanotubes. 2011 , 3, 4503-14		25
670	Lithiation-induced embrittlement of multiwalled carbon nanotubes. ACS Nano, 2011, 5, 7245-53	16.7	109
669	Adhesives with Nanoparticles. 2011 , 1437-1460		7
668	Molecular Dynamics Simulation of Elastic Properties and Fracture Behavior of Single Wall Carbon Nanotubes with Vacancy and Stone Wales Defect. 2011 , 20, 29-38		2
667	Elastic modulus of multiwalled carbon nanotubes reinforced aluminium matrix nanocomposite DA theoretical approach. 2011 , 50, 2493-2495		33
666	Effect of CNTs growth on carbon fibers on the tensile strength of CNTs grown carbon fiber-reinforced polymer matrix composites. 2011 , 42, 8-15		122
665	The role of nanomaterials in redox-based supercapacitors for next generation energy storage devices. 2011 , 3, 839-55		681
664	Dependence of mechanical characteristics and the fracture and buckling behavior of single-walled carbon nanotubes on their geometry. 2011 , 26, 408-416		8
663	Spectro-Microscopic Study of Laser-Modified Carbon Nanotubes. 2011 ,		
662	Carbon Nanotubes, Multi-Walled. 2011 ,		
661	Adhesive and Mechanical Properties of Carbon Nanotube Probes Contacting Chemically-Treated Surfaces. 2011 ,		1
660	Multi-Walled Carbon Nanotube-Aluminum Matrix Composites Prepared by Combination of Hetero-Agglomeration Method, Spark Plasma Sintering and Hot Extrusion. 2011 , 52, 1960-1965		54
659	Fabrication of Carbon Nanotube Reinforced Aluminum Matrix Composite by Spark Plasma Sintering and Hot Extrusion Hybrid Process. 2011 , 75, 259-264		2
658	Carbon nanotubes as structural material and their application in composites. <i>Composites Part B:</i> Engineering, 2011 , 42, 2151-2157	10	47

(2011-2011)

657	Mechanical properties of aligned multi-walled carbon nanotube/epoxy composites processed using a hot-melt prepreg method. 2011 , 71, 1826-1833		101
656	Phonons in graphene with point defects. 2011 , 23, 015402		25
655	Responses and thermal conductivity measurements of multi-wall carbon nanotube (MWNT)/epoxy composites. 2011 , 103, 533-542		11
654	High strength electrospun fibers. 2011 , 22, 295-303		23
653	Properties of carbon nanotube reinforced linear low density polyethylene nanocomposites fabricated by cryogenic ball-milling. 2011 , 32, 2101-2109		13
652	Effects of carbon nanofibers on the fracture, mechanical, and thermal properties of PP/SEBS-g-MA blends. 2011 , 51, 948-958		24
651	Superstrong ultralong carbon nanotubes for mechanical energy storage. 2011 , 23, 3387-91		148
650	Silicontarbon Nanotube Coaxial Sponge as Li-Ion Anodes with High Areal Capacity. 2011 , 1, 523-527		206
649	TEM observations of buckling and fracture modes for compressed thick multiwall carbon nanotubes. <i>Carbon</i> , 2011 , 49, 206-213	10.4	26
648	The performance of superhydrophobic and superoleophilic carbon nanotube meshes in waterBil filtration. <i>Carbon</i> , 2011 , 49, 669-676	10.4	254
647	High-temperature vapor deposition polymerization polyimide coating for elimination of surface nano-flaws in high-strength carbon fiber. <i>Carbon</i> , 2011 , 49, 3881-3890	10.4	24
646	Direct measurements of interfacial shear strength of multi-walled carbon nanotube/PEEK composite using a nano-pullout method. 2011 , 71, 1295-1300		102
645	Investigation of temperature effect on the mechanical properties of single-walled carbon nanotubes. 2011 , 93, 2208-2212		31
644	Anisotropic carbon nanotube papers fabricated from multiwalled carbon nanotube webs. <i>Carbon</i> , 2011 , 49, 2437-2443	10.4	118
643	Buckling initiation and displacement dependence in compression of vertically aligned carbon nanotube arrays. <i>Carbon</i> , 2011 , 49, 3190-3199	10.4	51
642	Computational study of the effect of carbon vacancy defects on the Young's modulus of (6, 6) single wall carbon nanotube. 2011 , 176, 693-700		15
641	Tensile Strength of Spinnable Multiwall Carbon Nanotubes. 2011 , 10, 2572-2578		32
640	Investigation of the Resistance Dependence on Temperature of Single Carbon Nanotube in Different Environments. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 125101	1.4	1

639	Mechanical Properties and Applications of Carbon Nanotubes. 2011 , 295-297, 1516-1521	1
638	Mechanical properties of polymerpolymer-grafted carbon nanotube composites. 2011 , 347-375	2
637	Thermomechanical and rheological behaviour of polymer nanocomposites based on ethylenethethyl acrylate (EMA) and multiwalled carbon nanotube (MWNT). 2011 , 40, 213-222	3
636	Influence of maleic anhydride compatibiliser on properties of polpropylene/multiwalled carbon nanotube composites. 2011 , 40, 438-448	4
635	Thermoplastic natural rubber composites reinforced with OMMT, MWNTs, and hybrid OMMTMWNTs. 2011 , 30, 1745-1752	12
634	Synthesis, Properties, and Applications of Low-Dimensional Carbon-Related Nanomaterials. 2011 , 2011, 1-21	73
633	Quantitative in situ TEM tensile testing of an individual nickel nanowire. <i>Nanotechnology</i> , 2011 , 22, 3557 92	57
632	Joint strength measurements of individual fiber-fiber bonds: an atomic force microscopy based method. 2012 , 83, 073902	25
631	On Design of Metal-Matrix Composites Lighter than Air. 2012 , 736, 55-71	
630	Loading Simulations of Carbon Nanotube Junctions. 2012 , 729, 162-168	
629	Chapter 9.2:Drug Delivery Strategies for Bone Regeneration. 2012 , 526-547	
629 628	Chapter 9.2:Drug Delivery Strategies for Bone Regeneration. 2012 , 526-547 Temperature dependent elastic constants and ultimate strength of graphene and graphyne. 2012 , 137, 194901	76
	Temperature dependent elastic constants and ultimate strength of graphene and graphyne. 2012 ,	76 2
628	Temperature dependent elastic constants and ultimate strength of graphene and graphyne. 2012 , 137, 194901	
628 627	Temperature dependent elastic constants and ultimate strength of graphene and graphyne. 2012, 137, 194901 Micro- and Nanofibrillar Single Polymer Composites. 2012, 641-672 THE ROLE OF POTENTIAL FUNCTIONS IN THE MECHANICAL BEHAVIOR OF THE SINGLE WALL	2
628 627 626	Temperature dependent elastic constants and ultimate strength of graphene and graphyne. 2012, 137, 194901 Micro- and Nanofibrillar Single Polymer Composites. 2012, 641-672 THE ROLE OF POTENTIAL FUNCTIONS IN THE MECHANICAL BEHAVIOR OF THE SINGLE WALL CARBON NANOTUBES. 2012, 11, 1240009 WITHDRAWN: Electronic structure and electron transmission of axial deformed single-wall carbon	2
628 627 626	Temperature dependent elastic constants and ultimate strength of graphene and graphyne. 2012, 137, 194901 Micro- and Nanofibrillar Single Polymer Composites. 2012, 641-672 THE ROLE OF POTENTIAL FUNCTIONS IN THE MECHANICAL BEHAVIOR OF THE SINGLE WALL CARBON NANOTUBES. 2012, 11, 1240009 WITHDRAWN: Electronic structure and electron transmission of axial deformed single-wall carbon nanotube. 2012, Hot extruded carbon nanotube reinforced aluminum matrix composite materials. Nanotechnology,	2

(2012-2012)

621	A molecular dynamics simulation study for the mechanical properties of different types of carbon nanotubes. 2012 , 2, 377-383	2
620	Carbon nanotube formation using zeolite template and applications. 2012 , 1, 179-193	17
619	On the dynamic stability of embedded single-walled carbon nanotubes including thermal environment effects. 2012 , 19, 919-925	29
618	In situ TEM investigation of congruent phase transition and structural evolution of nanostructured silicon/carbon anode for lithium ion batteries. 2012 , 12, 1624-32	222
617	PECVD growth of carbon nanotubes: From experiment to simulation. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2012 , 30, 030803	39
616	DFT Studies on the Interaction of an Open-Ended Single-Walled Aluminum Nitride Nanotube (AlNNT) with Gas Molecules. 2012 , 116, 4957-4964	28
615	Ceramic pore channels with inducted carbon nanotubes for removing oil from water. 2012, 4, 1909-18	83
614	Twistable and bendable actuator: a CNT/polymer sandwich structure driven by thermal gradient. Nanotechnology, 2012 , 23, 075501	39
613	Predictive Mechanical Properties of EPON 862 (DGEBF) cross-linked with Curing Agent W (DETDA) and SWCNT using MD Simulations - Effect of Carbon Vacancy Defects. 2012 ,	3
612	Coupled molecular/continuum mechanical modeling of graphene sheets. 2012 , 45, 151-161	13
611	Fabrication of Microscale Carbon Nanotube Fibers. 2012 , 2012, 1-10	6
610	An accurate spring-mass model for predicting mechanical properties of single-walled carbon nanotubes. 2012 , 62, 6-11	13
609	The effect of milling conditions on microstructures and mechanical properties of Al/MWCNT composites. 2012 , 43, 1061-1072	114
608	Functionalized Carbon Nanotubes and Their Enhanced Polymers. 2012 , 439-478	4
607	High-pressure behaviors of carbon nanotubes. 2012 , 34, 371-385	22
606	Introduction. 2012 , 1-52	
605	A novel apparatus for in situ compression of submicron structures and particles in a high resolution SEM. 2012 , 83, 095105	33
604	Significantly reinforced composite fibers electrospun from silk fibroin/carbon nanotube aqueous solutions. 2012 , 13, 2859-67	67

603	A damage mechanics model for twisted carbon nanotube fibers. 2012 , 25, 342-347	8
602	Carbon nanotube fibers for advanced composites. 2012 , 15, 302-310	87
601	Molecular simulations of pristine and defective carbon nanotubes under monotonic and combined loading. 2012 , 65, 133-143	18
600	Developing accelerometer based on graphene nanoribbon resonators. 2012 , 376, 3248-3255	21
599	Flammability properties of PEEK and carbon nanotube composites. 2012 , 97, 2492-2502	32
598	Dispersibility and chemical bonds between multi-walled carbon nanotubes and poly(ether ether ketone) in nanocomposite fibers. 2012 , 135, 948-956	4
597	Adhesive Properties of Gecko-Inspired Mimetic via Micropatterned Carbon Nanotube Forests. 2012 , 116, 20047-20053	43
596	Characterizing Micro and Nanomaterials Using MEMS Technology. 2012 , 1	
595	Electromechanical response and failure behaviour of aerogel-spun carbon nanotube fibres under tensile loading. 2012 , 22, 6792	37
594	Theoretical study on the oxidation of zigzag silicon carbide nanotubes (SiCNTs) by singlet O2. 2012 , 407, 4238-4243	1
593	Carbon Nanotube Polymer Composites. 2012 , 1	3
592	Unzipped multiwalled carbon nanotube oxide/multiwalled carbon nanotube hybrids for polymer reinforcement. 2012 , 4, 5956-65	44
591	Sandwich-lithiation and longitudinal crack in amorphous silicon coated on carbon nanofibers. <i>ACS Nano</i> , 2012 , 6, 9158-67	65
590	Theoretical Prediction of Tensile Behavior of Single-Walled Carbon Nanotubes. 2012 , 8, 42-46	2
589	Properties of a composite prepared using a concentrate of carbon nanotubes in polyethylene. 2012 , 48, 47-56	6
588	Theoretical Study of the Mechanical Behavior of Individual TiS2 and MoS2 Nanotubes. 2012 , 116, 11714-1172	2198
587	In Situ TEM Experiments of Electrochemical Lithiation and Delithiation of Individual Nanostructures. 2012 , 2, 722-741	315
586	Unusual Reversible Photomechanical Actuation in Polymer/Nanotube Composites. 2012 , 124, 8648-8652	13

585	Unusual reversible photomechanical actuation in polymer/nanotube composites. 2012 , 51, 8520-4		101
584	Preparation and characterization of silicon monoxide/graphite/carbon nanotubes composite as anode for lithium-ion batteries. 2012 , 16, 1453-1460		47
583	Characterization and mechanical testing of alumina-based nanocomposites reinforced with niobium and/or carbon nanotubes fabricated by spark plasma sintering. 2012 , 60, 622-632		52
582	Mechanical characterization of aligned multi-walled carbon nanotube films using microfabricated resonators. <i>Carbon</i> , 2012 , 50, 347-355	10.4	41
581	Mechanical properties and morphology of papers prepared from single-walled carbon nanotubes functionalized with aromatic amides. <i>Carbon</i> , 2012 , 50, 1713-1719	10.4	30
580	Mechanical reinforcement of a high-performance aluminium alloy AA5083 with homogeneously dispersed multi-walled carbon nanotubes. <i>Carbon</i> , 2012 , 50, 2264-2272	10.4	83
579	Failure mechanisms of carbon nanotube fibers under different strain rates. <i>Carbon</i> , 2012 , 50, 2887-2893	310.4	63
578	Impact of nanotube density and alignment on the elastic modulus near the top and base surfaces of aligned multi-walled carbon nanotube films. <i>Carbon</i> , 2012 , 50, 3789-3798	10.4	42
577	Physical properties of carbon nanotube sheets drawn from nanotube arrays. <i>Carbon</i> , 2012 , 50, 4175-418	3 3 0.4	63
576	Fabrication and mechanical properties of carbon nanotube yarns spun from ultra-long multi-walled carbon nanotube arrays. <i>Carbon</i> , 2012 , 50, 4579-4587	10.4	68
575	Wave propagation in single-walled carbon nanotube under longitudinal magnetic field using nonlocal Euler B ernoulli beam theory. 2012 , 36, 4529-4538		128
574	Mechanical properties of nanostructured Al2024MWCNT composite prepared by optimized mechanical milling and hot pressing methods. 2012 , 23, 205-210		53
573	Reinforcement effects of MWCNT and VGCF in bulk composites and interlayer of CFRP laminates. <i>Composites Part B: Engineering</i> , 2012 , 43, 3-9	10	56
572	Effect of matrix glass transition on reinforcement efficiency of epoxy-matrix composites with single walled carbon nanotubes, multi-walled carbon nanotubes, carbon nanofibers and graphite. <i>Composites Part B: Engineering</i> , 2012 , 43, 2079-2086	10	47
571	Modeling the effect of statistical variations in length and diameter of randomly oriented CNTs on the properties of CNT reinforced nanocomposites. <i>Composites Part B: Engineering</i> , 2012 , 43, 1756-1762	10	30
570	Fabrication of multi-walled carbon nanotube-reinforced carbon fiber/silicon carbide composites by polymer infiltration and pyrolysis process. 2012 , 72, 461-466		17
569	On the aspect ratio effect of multi-walled carbon nanotube reinforcements on the mechanical properties of cementitious nanocomposites. <i>Construction and Building Materials</i> , 2012 , 35, 647-655	6.7	233
568	Network behavior of thermosetting polyimide/multiwalled carbon nanotube composites. <i>Polymer</i> , 2012 , 53, 1020-1027	3.9	25

567	Peculiarities of Raman spectra of polyurethane/carbon nanotube composite. 2012, 85, 1	13
566	Templated growth of covalently bonded three-dimensional carbon nanotube networks originated from graphene. 2012 , 24, 1576-81	34
565	Preparation of CNT-hybridized carbon fiber by aerosol-assisted chemical vapor deposition. 2012 , 47, 3327-3333	13
564	Compounding of MWCNTs with PS in a Twin-Screw Extruder with Varying Process Parameters: Morphology, Interfacial Behavior, Thermal Stability, Rheology, and Volume Resistivity. 2013 , 298, 89-105	28
563	An accurate molecular mechanics model for computation of size-dependent elastic properties of armchair and zigzag single-walled carbon nanotubes. 2013 , 48, 1355-1367	28
562	A composite index to quantify dispersion of carbon nanotubes in polymer-based composite materials. <i>Composites Part B: Engineering</i> , 2013 , 55, 16-21	39
561	An investigation of Mode I and Mode II fracture toughness enhancement using aligned carbon nanotubes forests at the crack interface. 2013 , 106, 65-73	68
560	Oxidation of nanodiamonds and modulation of their assembly in polymer-based nanohybrids by field-inducement. 2013 , 48, 4151-4162	9
559	Microwave absorption property of aligned MWCNT/Fe3O4. 2013, 346, 186-191	46
558	The structural and electronic properties of (10,0) zigzag Single-Wall Carbon Nanotubes modified by thiophene groups. 2013 , 584, 177-181	2
557	Prediction of compressive post-buckling behavior of single-walled carbon nanotubes in thermal environments. 2013 , 113, 145-153	11
556	The application of chiral arginine and multi-walled carbon nanotubes as matrices to monitor hydrogen peroxide. 2013 , 91, 32-6	10
555	Biologically Responsive Biomaterials for Tissue Engineering. 2013,	7
554	Effect of Metal Impurities on the Tensile Strength of Carbon Nanotubes: A Theoretical Study. 2013 , 117, 5470-5474	7
553	Recent progress in the development and properties of novel metal matrix nanocomposites reinforced with carbon nanotubes and graphene nanosheets. 2013 , 74, 281-350	711
552	Developing high-performance aluminum matrix composites with directionally aligned carbon nanotubes by combining friction stir processing and subsequent rolling. <i>Carbon</i> , 2013 , 62, 35-42	107
551	Deformation response of conformally coated carbon nanotube forest. <i>Nanotechnology</i> , 2013 , 24, 475703.4	8
550	Compressed carbon nanotubes: a family of new multifunctional carbon allotropes. 2013 , 3, 1331	73

(2013-2013)

549	Reinforcement of CVD grown multi-walled carbon nanotubes by high temperature annealing. 2013 , 3, 112101		14
548	Structural Nanocomposites. 2013 ,		8
547	Aligned carbon nanotube/polymer composite film with anisotropic tribological behavior. 2013 , 395, 322-5		9
546	Probing structure and strain transfer in dry-spun carbon nanotube fibers by depth-profiled Raman spectroscopy. 2013 , 103, 031912		18
545	Using various techniques to characterize oxidative functionalized and aminosilanized carbon nanotubes for polyamide matrix. 2013 , 32, 75-86		38
544	Functional polymer p olymer/carbon nanotube bi-component fibers. <i>Polymer</i> , 2013 , 54, 6210-6217 3.	9	26
543	Influence of additives of carbon nanotubes on the structure and properties of metal binders for a diamond tool. 2013 , 54, 527-531		5
542	Strengthening and stiffening carbon fiber epoxy composites by halloysite nanotubes, carbon nanotubes and silicon carbide whiskers. 2013 , 83-84, 375-382		13
541	A review on potential applications of carbon nanotubes in marine current turbines. 2013 , 28, 331-339		29
540	Electrical Conductivity and Hardness Property of CNTs/Epoxy Nanocomposites. 2013, 701, 197-201		3
539	Environmentally friendly nanofillers as reinforcements for composites. 2013 , 41-73		
538	Direct conversion of natural gas into COx-free hydrogen and MWCNTs over commercial NiMo/Al2O3 catalyst: Effect of reaction parameters. 2013 , 22, 27-34		22
537	Nanoscopic observations for evaluating the failure process of aligned multi-walled carbon nanotube/epoxy composites. 2013 , 88, 48-56		18
536	Reversible switching between hydrophobicity and oleophobicity of polyelectrolyte-functionalized multiwalled carbon nanotubes via counterion exchange. 2013 , 37, 810		5
535	Rheological and mechanical properties of carbon nanotube/Graphite/SS316L/polypropylene nanocomposite for a conductive polymer composite. <i>Composites Part B: Engineering</i> , 2013 , 50, 54-61)	33
534	High-strength composite yarns derived from oxygen plasma modified super-aligned carbon nanotube arrays. 2013 , 6, 208-215		32
533	Optical visualization of individual ultralong carbon nanotubes by chemical vapour deposition of titanium dioxide nanoparticles. 2013 , 4, 1727		54
532	Liberation of drugs from multi-wall carbon nanotube carriers. 2013 , 169, 126-40		37

531	The influence of foam morphology of multi-walled carbon nanotubes/poly(methyl methacrylate) nanocomposites on electrical conductivity. <i>Polymer</i> , 2013 , 54, 3261-3270	77
530	Multi-walled carbon nanotube-based carbon/carbon composites with three-dimensional network structures. 2013 , 5, 6181-6	20
529	Carbon Nanotubes in Acrylic Bone Cement. 2013 , 173-199	
528	Interface effects on the viscoelastic characteristics of carbon nanotube polymer matrix composites. 2013 , 58, 1-11	78
527	Vapor grown carbon nanofiber reinforced bio-based polyester for electroactive shape memory performance. 2013 , 75, 15-21	75
526	Enhanced mechanical strength and electrical conductivity of carbon-nanotube/TiC hybrid fibers. 2013 , 5, 6923-7	7
525	Tailoring oxidation of Al particles morphologically controlled by carbon nanotubes. 2013 , 55, 1143-1151	10
524	Effect of functionalization of multi-walled carbon nanotube on the curing behavior and mechanical property of multi-walled carbon nanotube/epoxy composites. 2013 , 49, 279-284	83
523	Structure changes during tensile deformation and mechanical properties of a twisted carbon nanotube yarn. <i>Carbon</i> , 2013 , 60, 193-201	17
522	Individual boron nanowire has ultra-high specific Young's modulus and fracture strength as revealed by in situ transmission electron microscopy. <i>ACS Nano</i> , 2013 , 7, 10112-20	27
521	Nanoscale damping characteristics of boron nitride nanotubes and carbon nanotubes reinforced polymer composites. 2013 , 5, 12052-7	81
520	Lithiation induced corrosive fracture in defective carbon nanotubes. 2013 , 103, 153901	25
519	Enhancement in ballistic performance of composite hard armor through carbon nanotubes. 2013 , 4, 212-228	18
518	In situ experimental mechanics of nanomaterials at the atomic scale. 2013 , 5, e40-e40	96
517	Polymeric Materials Reinforced with Multiwall Carbon Nanotubes: A Constitutive Material Model. Materials, 2013, 6, 2873-2891 3.5	4
516	Mechanical Properties and Fracture Characterization of Al-5%wtMg Composite Reinforced with Carbon Nanotube. 2013 , 750-752, 186-190	
515	Thermoplastic Nanocomposites with Carbon Nanotubes. 2013 , 19-60	20
514	Synthesis of single-walled carbon nanotubes over CoMo/Al 2 O 3 catalyst by the catalytic chemical vapor deposition of methane. 2013 , 4, 035018	2

513	Shape memory polymers with novel functions: electro-active, magnetically-active, light-adaptive and phase change materials. 2013 , 231-258	2
512	Polyolefins: 50 years after Ziegler and Natta II. 2013 ,	11
511	Polyolefin Nanocomposites and Hybrid Catalysts. 2013 , 279-309	16
510	An enhanced continuum modeling of the ideal strength and the angle of twist in tensile behavior of single-walled carbon nanotubes. 2013 , 114, 053521	7
509	Ring windings from single-wall carbon nanotubes: A distinct element method study. 2013 , 103, 183902	10
508	BACK MATTER. 2013 , 497-556	
507	Mechanical Properties of Aligned Carbon Nanotube/Epoxy Composites. 2013, 39, 240-247	4
506	What holds paper together: nanometre scale exploration of bonding between paper fibres. 2013 , 3, 2432	47
505	Characterization and Morphology of Modified Multi-Walled Carbon Nanotubes Filled Thermoplastic Natural Rubber (TPNR) Composite. 2013 ,	4
504	The role of the atomic force function in molecular mechanics simulations for carbon nanostructures. 2013 , 47, 012035	
503	Free vibration analysis of DWCNTs using CDM and Rayleigh-Schmidt based on Nonlocal Euler-Bernoulli beam theory. 2014 , 2014, 194529	6
502	Tensile Properties and Fracture Behavior of Different Carbon Nanotube-Grafted Polyacrylonitrile-Based Carbon Fibers. 2014 , 23, 3916-3925	8
501	Synthesis and Characterization of Nanostructured Copolymer-Grafted Multiwalled Carbon Nanotube Composite Thermoplastic Elastomers toward Unique Morphology and Strongly Enhanced Mechanical Properties. 2014 , 53, 20154-20167	16
500	Properties of Carbon Nanotubes. 2014 , 1-49	2
499	Single-Walled Carbon Nanotubes: Field Emission Properties. 2014 , 4505-4511	
498	Fundamental Properties of Graphene. 2014 , 1-37	3
497	Defect-Tolerant Nanocomposites through Bio-Inspired Stiffness Modulation. 2014 , 24, 2883-2891	23
496	A probability model for the strength of carbon nanotubes. 2014 , 4, 077116	1

495	Stress transfer efficiency in aligned multi-wall carbon nanotubes sheet/epoxy composites. 2014 , 67, 16-21	15
494	Study of growth kinetics of amorphous carbon nanopillars formed by PECVD. 2014 ,	
493	Polyamide-grafted-multi-walled carbon nanotube electrospun nanofibers/epoxy composites. 2014 , 15, 2564-2571	20
492	Free-standing carbon nanotube composite sensing skin for distributed strain sensing in structures. 2014 ,	2
491	Nanofins: Science. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014 , 23-50 o.4	
490	Mechanical Properties of Carbon Nanotubes and Graphene. 2014 , 165-200	3
489	Synthesis and Properties of Ultralong Carbon Nanotubes. 2014 , 87-136	4
488	Direct Dry Spinning of Millimeter-long Carbon Nanotube Arrays for Aligned Sheet and Yarn. 2014 , 389-414	1
487	Barrier, mechanical and morpho-structural properties of gelatin films with carbon nanotubes addition. 2014 , 120, 223-232	28
486	A study on high-performance poly(azo-pyridine-benzophenone-imide) nanocomposites via self-reinforcement of electrospun nanofibers. 2014 , 23, 127-136	8
485	Poly(azo-ether-imide) nanocomposite films reinforced with nanofibers electrospun from multi-walled carbon nanotube filled poly(azo-ether-imide). 2014 , 30, 266-283	8
484	Combined effect of expanded graphite and multiwall carbon nanotubes on the thermo mechanical, morphological as well as electrical conductivity of in situ bulk polymerized polystyrene composites. 2014 , 56, 181-191	35
483	Synergetic effect of graphene nanoplatelets (GNPs) and multi-walled carbon nanotube (MW-CNTs) on mechanical properties of pure magnesium. 2014 , 603, 111-118	158
482	Polypropylene/carbon nanotube nano/microcellular structures with high dielectric permittivity, low dielectric loss, and low percolation threshold. <i>Carbon</i> , 2014 , 71, 206-217	. 29 0
481	EluoroplasticMulti-Walled Carbon NanotubelComposites: Structural, Mechanical, and Tribotechnical Characteristics. 2014 , 52, 620-631	2
480	Carbon (Graphene/Graphite). 2014 , 7-235	13
479	Structural and electronic properties of armchair (7, 7) carbon nanotubes using DFT. 2014 , 82, 159-164	21
478	Waviness reduces effective modulus of carbon nanotube forests by several orders of magnitude. Carbon, 2014 , 66, 57-66	- 44

477	Spinning of carbon nanotube fibres using the floating catalyst high temperature route: purity issues and the critical role of sulphur. 2014 , 173, 47-65		89	
476	Hierarchical orthorhombic V2O5 hollow nanospheres as high performance cathode materials for sodium-ion batteries. 2014 , 2, 11185		132	
475	Key factors limiting carbon nanotube yarn strength: exploring processing-structure-property relationships. <i>ACS Nano</i> , 2014 , 8, 11454-66	16.7	56	
474	Imaging, Spectroscopic, Mechanical and Biocompatibility Studies of Electrospun Tecoflex EG 80A Nanofibers and Composites Thereof Containing Multiwalled Carbon Nanotubes. 2014 , 321, 205-213		15	
473	Fast preparation of free-standing nanohydroxyapatite-vertically aligned carbon nanotube scaffolds. 2014 , 2, 1196-1204		25	
472	Characterization of Interlayer Sliding Deformation for Individual Multiwalled Carbon Nanotubes Using Electrostatically Actuated Nanotensile Testing Device. 2014 , 23, 944-954		5	
471	Enhancement of tensile and thermal properties of epoxy nanocomposites through chemical hybridization of carbon nanotubes and alumina. 2014 , 66, 109-116		53	
470	Combination of carbon nitride and carbon nanotubes: synergistic catalysts for energy conversion. 2014 , 7, 2303-9		71	
469	The effect of carbon nanotube orientation on erosive wear resistance of CNT-epoxy based composites. <i>Carbon</i> , 2014 , 73, 421-431	10.4	30	
468	Angled microfiber arrays as low-modulus, low Poisson's ratio compliant substrates. 2014 , 24, 065016		1	
467	Evaluation of mechanical properties of untwisted carbon nanotube yarn for application to composite materials. <i>Carbon</i> , 2014 , 78, 356-365	10.4	33	
466	Electrospun, non-woven, nanofibrous membranes prepared from nano-diamond and multi-walled carbon nanotube-filled poly(azo-pyridine) and epoxy composites reinforced with these membranes. 2014 , 30, 369-387		12	
465	Functionalized carbon nanotube reinforced scaffolds for bone regenerative engineering: fabrication, in vitro and in vivo evaluation. 2014 , 9, 035001		70	
464	Influence of the concentration and nature of carbon nanotubes on the mechanical properties of AA5083 aluminium alloy matrix composites. <i>Carbon</i> , 2014 , 77, 44-52	10.4	51	
463	Molecular dynamics simulations of the effect of the volume fraction on unidirectional polyimidellarbon nanotube nanocomposites. <i>Carbon</i> , 2014 , 67, 440-448	10.4	35	
462	Powder metallurgy of MgII%AlII%Sn alloy reinforced with low content of graphene nanoplatelets (GNPs). 2014 , 20, 4250-4255		118	
461	Binary salt[bf hexane-1,6-diaminium adipate and Barbon nanotubate[as a synthetic precursor of carbon nanotube/Nylon-6,6 hybrid materials. 2014 , 35, 523-529		4	
460	Carbon nanotubes leading the way forward in new generation 3D tissue engineering. 2014 , 32, 1000-14		109	

459	Carbon nanotube reinforced PVAm/PVA blend FSC nanocomposite membrane for CO2/CH4 separation. 2014 , 26, 127-134	74
458	Three dimensional orientation angle distribution counting and calculation for the mechanical properties of aligned carbon nanotube/epoxy composites. 2014 , 65, 1-9	22
457	Advanced Microscopy Techniques for a Better Understanding of the Polymer/Nanotube Composite Properties. 2014 , 365-404	1
456	Refractory Metals, Ceramics, and Composites for High-Temperature Structural and Functional Applications. 2014 , 39-68	1
455	Magnesium Matrix Composites Reinforced with Graphene Nanoplatelets. 2015, 151-189	3
454	Effects of uniaxial and biaxial orientation on fiber percolation in conductive polymer composites. 2015 ,	8
453	Stack growth of aligned multiwalled carbon nanotubes using floating catalyst chemical vapor deposition technique. 2015 , 625, 53-57	1
452	Multi-walled carbon nanotubes change morpho-functional and GABA characteristics of mouse cortical astrocytes. 2015 , 13, 92	7
451	Effect of Amide Functionalization and Precuring on Tensile Properties of MWCNT/Epoxy Nanocomposites. 2015 , 353, 88-95	2
450	Thermal Transport in Single-Walled Carbon Nanotubes Under Pure Bending. 2015, 3,	17
449	Towards nanoreliability of CNT-based sensor applications: Investigations of CNT-metal interfaces combining molecular dynamics simulations, advanced in situ experiments and analytics. 2015 ,	O
448	Dispersion of carbon nanotubes into polyethylene by an additive assisted one-step melt mixing approach. <i>Polymer</i> , 2015 , 66, 210-221	22
447	Restriction of Phase Transformation in Carbon Nanotube-Reinforced Yttria-Stabilized Zirconia. 2015 , 46, 2965-2974	13
446	Optimization of AlSiCNTs functionally graded material composites for engine piston rings. 2015 , 80, 163-173	40
445	Molecular dynamics and atomistic based continuum studies of the interfacial behavior of nanoreinforced epoxy. 2015 , 85, 38-46	18
444	Effects of carbon nanotube aspect ratio on strengthening and tribological behavior of ultra high molecular weight polyethylene composite. 2015 , 76, 62-72	64
443	Nanocomposite toughness, strength and stiffness: role of filler geometry. 2015 , 1, 3-17	33
442	Dynamic stability analysis of embedded multi-walled carbon nanotubes in thermal environment. 2015 , 28, 659-667	28

(2015-2015)

441	Influence of carbon nanotube addition on sliding wear behaviour of pulse electrodeposited cobalt (Co)phosphorus (P) coatings. 2015 , 120, 1653-1658	6
440	Experiments and FE simulation for twin screw mixing of nanocomposite of polypropylene/multi-walled carbon nanotubes. 2015 , 107, 169-176	6
439	Nanocomposite coatings: thermal spray processing, microstructure and performance. 2015 , 60, 195-244	45
438	Effects of nitrogen doping from pyrolyzed ionic liquid in carbon nanotube fibers: enhanced mechanical and electrical properties. <i>Nanotechnology</i> , 2015 , 26, 075706	11
437	Distinct element method for multiscale modeling of cross-linked carbon nanotube bundles: From soft to strong nanomaterials. 2015 , 30, 19-25	11
436	Micromechanics of ultra-toughened electrospun PMMA/PEO fibres as revealed by in-situ tensile testing in an electron microscope. 2014 , 4, 6335	28
435	Tailoring Industrial Scale CNT Production to Specialty Markets. 2015 , 1752, 103-109	12
434	In situelectron microscopy of Braille microsystems: photo-actuation of ethylene vinyl acetate/carbon nanotube composites. 2015 , 2, 025601	3
433	A numerical study on carbon nanotube pullout to understand its bridging effect in carbon nanotube reinforced composites. <i>Composites Part B: Engineering</i> , 2015 , 81, 64-71	34
432	Improving flexural and dielectric properties of MWCNT/epoxy nanocomposites by introducing advanced hybrid filler system. 2015 , 132, 50-64	39
431	Chemical Bath Deposition of Aluminum Oxide Buffer on Curved Surfaces for Growing Aligned Carbon Nanotube Arrays. 2015 , 31, 7401-9	9
430	Green chemical functionalization of single-wall carbon nanotube with methylimidazolium dicyanamid ionic liquid: A first principle computational exploration. 2015 , 211, 498-505	13
429	One-dimensional nonlocal elasticity for tensile single-walled carbon nanotubes: A molecular structural mechanics characterization. 2015 , 54, 160-170	33
428	Fabrication, characterization, and mechanical properties of spark plasma sintered AlBN nanoparticle composites. <i>Materials Science & amp; Engineering A: Structural Materials: Properties,</i> 5.3 <i>Microstructure and Processing,</i> 2015 , 642, 104-112	61
427	Improved microstructure and mechanical properties for Sn58Bi solder alloy by addition of Ni-coated carbon nanotubes. <i>Materials Science & A: Structural Materials: Properties, Microstructure and Processing,</i> 2015 , 642, 7-15	42
426	Design, simulation and characterization of a MEMS inertia switch with flexible CNTs/Cu composite array layer between electrodes for prolonging contact time. 2015 , 25, 085012	9
425	Mechanical characterization and validation of poly (methyl methacrylate)/multi walled carbon nanotube composite for the polycentric knee joint. 2015 , 50, 33-42	8
424	Loaded sectioned space elevator. 2015 , 53, 230-236	2

423	Theoretical investigations of splap2 hybridized capped graphyne nanotubes. 2015 , 134, 217-221	12
422	Multifunctionalized Carbon Nanotubes Polymer Composites: Properties and Applications. 2015 , 155-214	7
421	Effect of manufacturing condition in PC/PMMA/CNT nanocomposites extrusion on the electrical, morphological, and mechanical properties. 2015 , 27, 55-62	12
420	Encapsulation of fluoroethanols in pristine and StoneWales defect boron nitride nanotube 🖪 DFT study. 2015 , 345, 369-378	7
419	Omnidirectionally stretchable, high performance supercapacitors based on a graphenellarbon-nanotube layered structure. 2015 , 15, 33-42	35
418	Recent advancement of nanostructured carbon for energy applications. 2015 , 115, 5159-223	598
417	Carbon Nanotube Fabric Cooling System for Firefighters and First Responders: Modeling and Simulation. 2015 , 8, 1-12	5
416	Carbon Nanotube Uptake Changes the Biomechanical Properties of Human Lung Epithelial Cells in a Time-dependent Manner. 2015 , 3, 3983-3992	17
415	Hierarchical Composites Containing Carbon Nanotubes. 2015 , 319-356	
414	Effect of a carbon nanotube coating on friction and impact performance of Kevlar. 2015 , 50, 5431-5442	28
413	Energetics of atomic scale structure changes in graphene. 2015 , 44, 3143-76	102
412	Improved mechanical properties of magnesium@raphene composites with copper@raphene hybrids. 2015 , 31, 1452-1461	42
411	Thermal Conductivity and Phonon Scattering in Severely Bent Carbon Nanotubes and Bi-layer Graphene. 2015 , 2, 3819-3823	4
410	Advanced multifunctional properties of aligned carbon nanotube-epoxy thin film composites. 2015 , 87, 600-605	30
409	Spontaneous and specific myogenic differentiation of human mesenchymal stem cells on polyethylene glycol-linked multi-walled carbon nanotube films for skeletal muscle engineering. 2015 , 7, 18239-49	25
408	Aligned carbon nanotube reinforced polymeric scaffolds with electrical cues for neural tissue regeneration. <i>Carbon</i> , 2015 , 95, 715-724	67
407	The Hitchhiker Guide to the Solar System: A Tethered Orbit Insertion and Landing Concept for Small Body Exploration. 2015 ,	1
406	Influence of Carboxylation on Structural and Mechanical Properties of Carbon Nanotubes: Composite Reinforcement and Toxicity Reduction Perspectives. 2015 , 119, 26734-26746	16

405	Copper-CNT Hybrid TSVs: Thermo-Mechanical Stresses and Reliability Analysis. 2015, 24, 1550006	5
404	High resolution and dynamic imaging of biopersistence and bioreactivity of extra and intracellular MWNTs exposed to microglial cells. 2015 , 70, 57-70	27
403	Highly aligned arrays of super resilient carbon nanotubes by steam purification. <i>Carbon</i> , 2015 , 84, 130-1375.4	24
402	Graphene oxidepolyamide 6 nanocomposites produced via in situ polymerization. 2015 , 28, 372-389	29
401	Perspectives of Nano-Carbon Based Engineering Materials. 2015 , 17, 124-137	46
400	Graphene and carbon nanotube (CNT) in MEMS/NEMS applications. 2015 , 132, 192-206	146
399	Electromechanical vibration of carbon nanocoils. <i>Carbon</i> , 2015 , 81, 758-766	22
398	Carbon Nanotube Reinforced Titanium Metal Matrix Composites Prepared by Powder Metallurgy Review. 2015 , 40, 38-55	98
397	Optimisation and analysis of the reinforcement effect of carbon nanotubes in a typical matrix system. 2015 , 50, 461-478	12
396	Synthesis and properties of polyimide nanocomposites self-reinforced with electrospun poly(azo-naphthyl-imide)/carbon nanotube nanofibers. 2016 , 29, 312-326	8
395	Nanofibers as novel drug carrierAn overview. 2016 , 44, 135-43	50
394	A new perspective on hierarchical structure to analyse strength limiting factors of CNT yarns. 2016 , 2, 308	
393	Parametric Study of Strain Rate Effects on Nanoparticle-Reinforced Polymer Composites. 2016 , 2016, 1-9	8
392	Polyetheretherketone Hybrid Composites with Bioactive Nanohydroxyapatite and Multiwalled Carbon Nanotube Fillers. 2016 , 8,	26
391	Mechanical Strength Improvements of Carbon Nanotube Threads through Epoxy Cross-Linking. Materials, 2016, 9,	20
390	Advanced Fabrication and Properties of Aligned Carbon Nanotube Composites: Experiments and Modeling. 2016 ,	9
389	Probabilistic Strength Theory of Carbon Nanotubes and Fibers. 2016 , 123-146	
388	Micromechanical investigation of creep-recovery behavior of carbon nanotube-reinforced polymer nanocomposites. 2016 , 115-116, 45-55	62

387	Infrared laser ablation of polymeric nanocomposites: A study of surface structure and plume formation. 2016 , 120, 225103		2
386	Nanocomposite thin film coatings for brittle materials. 2016 , 2, 162-168		1
385	Highly reliable and efficient atomic force microscopy based bending test for assessing Young's modulus of one-dimensional nanomaterials. 2016 , 108, 123104		7
384	Boron-Filled Hybrid Carbon Nanotubes. 2016 , 6, 30495		8
383	Effect of carbon nanotube and silicon carbide on microstructure and dry sliding wear behavior of copper hybrid nanocomposites. 2016 , 26, 3170-3182		36
382	Experimental Study of the Mechanical Properties of a Novel Supramolecular Polymer Filament Using a Microtensile Tester Based on Electronic Balance. 2016 , 40, 737-742		1
381	Ultra-stiff large-area carpets of carbon nanotubes. 2016 , 8, 11993-2001		4
380	Vertically-Aligned Carbon Nanotubes for Electrochemical Energy Conversion and Storage. Nanoscience and Technology, 2016 , 253-270	5	4
379	Effects of synthesis catalyst and temperature on broadband dielectric properties of nitrogen-doped carbon nanotube/polyvinylidene fluoride nanocomposites. <i>Carbon</i> , 2016 , 106, 260-278	·4	84
378	Rapid-Response, Widely Stretchable Sensor of Aligned MWCNT/Elastomer Composites for Human Motion Detection. 2016 , 1, 817-825		123
377	A novel methodology for self-healing at the nanoscale in CNT/epoxy composites. 2016,		O
376	AFM-based mechanical characterization of single nanofibres. 2016 , 8, 8414-26		42
375	Fabrication of multi-walled carbon nanotube layers with selected properties via electrophoretic deposition: physicochemical and biological characterization. 2016 , 122, 1		18
374	Wet spinning of continuous polymer-free carbon-nanotube fibers with high electrical conductivity and strength. 2016 , 9, 055101		25
373	Thermal buckling of double-layered graphene sheets embedded in an elastic medium with various boundary conditions using a nonlocal new first-order shear deformation theory. <i>Composites Part B: Engineering</i> , 2016 , 97, 201-215	1	33
372	Deterioration of the Strong sp2 Carbon Network in Carbon Nanotubes during the Mechanical Dispersion Processing Review. 2016 , 41, 347-366		32
371	Nonlocal frequency analysis of nanosensors with different boundary conditions and attached distributed biomolecules: an approximate method. 2016 , 227, 2323-2342		7

(2016-2016)

369 Effects of Solvent on the Optical Nonlinearities of Multi-Walled Carbon Nanotubes under the Picosecond Laser Pulses. **2016**, 697, 695-700

368	New processing method to fabricate high-performance carbon-nanotube/polyvinyl alcohol composite films. <i>Carbon</i> , 2016 , 110, 490-496	10.4	12
367	Reinforced and hardened three-phase-foams. 2016 , 73, 174-184		5
366	A simple chemical treatment for easy dispersion of carbon nanotubes in epoxy matrix for improving mechanical properties. 2016 , 51, 10775-10781		7
365	Current status and future directions for in situ transmission electron microscopy. 2016 , 170, 86-95		125
364	Multi-Functional Carbon Fibre Composites using Carbon Nanotubes as an Alternative to Polymer Sizing. 2016 , 6, 37334		53
363	Fast Monte Carlo Simulation-based Process Design and Planning for Carbon Nanotube Synthesis. 2016 , 5, 1357-1368		1
362	Interphase tuning for stronger and tougher composites. 2016 , 6, 26305		26
361	Mechanical test method and properties of a carbon nanomaterial with a high aspect ratio. 2016 , 3, 29		6
360	Nanostructured Silicon Anodes for High-Performance Lithium-Ion Batteries. 2016 , 26, 647-678		216
359	Fully integrated patterned carbon nanotube strain sensors on flexible sensing skin substrates for structural health monitoring. 2016 ,		2
358	Microstructure and Mechanical Properties of CNT-Reinforced AZ91D Composites Fabricated by Ultrasonic Processing. 2016 , 29, 652-660		8
357	Effect of waviness and orientation of carbon nanotubes on random apparent material properties and RVE size of CNT reinforced composites. 2016 , 152, 870-882		39
356	A Many-Body Overview of Excitonic Effects in Armchair Graphene Nanoribbons. 2016 , 109-120		2
355	Functionally graded Timoshenko nanobeams: A novel nonlocal gradient formulation. <i>Composites Part B: Engineering</i> , 2016 , 100, 208-219	10	168
354	Towards nanoreliability of sensors incorporating interfaces between single-walled carbon nanotubes and metals: molecular dynamics simulations and in situ experiments using electron microscopy. 2016 , 40, 270-280		2
353	Processable conductive graphene/polyethylene nanocomposites: Effects of graphene dispersion and polyethylene blending with oxidized polyethylene on rheology and microstructure. <i>Polymer</i> , 2016 , 98, 143-155	3.9	57
352	Molecular dynamics simulation of defected carbon nanotubes. 2016 , 230, 654-662		4

351	Progression of alignment in stretched CNT sheets determined by wide angle X-ray scattering. Carbon, 2016, 100, 309-317	10.4	9
350	Geometry and Self-stress of Single-Wall Carbon Nanotubes and Graphene via a Discrete Model Based on a 2nd-Generation REBO Potential. 2016 , 125, 1-37		21
349	Intrinsic strength and failure behaviors of ultra-small single-walled carbon nanotubes. 2016 , 114, 167-171	l	13
348	Electromechanical peridynamics modeling of piezoresistive response of carbon nanotube nanocomposites. 2016 , 113, 154-170		29
347	Toughness of carbon nanotubes conforms to classic fracture mechanics. 2016 , 2, e1500969		38
346	Cross-linking multiwall carbon nanotubes using PFPA to build robust, flexible and highly aligned large-scale sheets and yarns. <i>Nanotechnology</i> , 2016 , 27, 115701	3.4	8
345	Carbon nanotube dispersion in nematic liquid crystals: An overview. 2016 , 80, 38-76		115
344	Fabrication of individual carbon nanotubes and their arrays in a transmission electron microscope. Carbon, 2016 , 100, 435-440	10.4	6
343	Synthesis of carbon nanotubes by catalytic chemical vapour deposition: A review on carbon sources, catalysts and substrates. 2016 , 41, 67-82		292
342	Experimental and computational studies on the role of surface functional groups in the mechanical behavior of interfaces between single-walled carbon nanotubes and metals. 2016 , 51, 1217-1233		3
341	Real-time monitoring of carbon nanotube dispersion using dynamic light scattering and UV-vis spectroscopy. 2016 , 82, 361-367		11
340	Scaling up single-wall carbon nanotube laser annealing: effect on electrical resistance and hydrogen adsorption. <i>RSC Advances</i> , 2017 , 7, 5084-5092	3.7	6
339	Evaluation of the geopolymer/nanofiber interfacial bond strength and their effects on Mode-I fracture toughness of geopolymer matrix at high temperature. 2017 , 24, 817-831		15
338	Introduction. 2017 , 1-22		
337	Multi-walled carbon nanotubes grow under low pressure hydrogen, air, and argon ambient by arc discharge plasma. 2017 , 25, 269-272		10
336	An out-of-plane displacement measurement system based on hardware tracking. 2017,		1
335	Micromechanics-based thermo-viscoelastic properties prediction of fiber reinforced polymers with graded interphases and slightly weakened interfaces. 2017 , 168, 440-455		29
334	Carbon-family materials for flame retardant polymeric materials. 2017 , 69, 22-46		275

333	Hierarchical Supramolecular Cross-Linking of Polymers for Biomimetic Fracture Energy Dissipating Sacrificial Bonds and Defect Tolerance under Mechanical Loading. 2017 , 6, 210-214	21
332	Carbon-based supercapacitors for efficient energy storage. 2017 , 4, 453-489	409
331	Crucial Role of Oxidation Debris of Carbon Nanotubes in Subsequent End-Use Applications of Carbon Nanotubes. 2017 , 9, 17552-17564	8
330	Hierarchical multiscale modeling of the effect of carbon nanotube damage on the elastic properties of polymer nanocomposites. 2017 , 12, 263-287	2
329	Rapid microwave irradiation synthesis of carbon nanotubes on graphite surface and its application on asphalt reinforcement. <i>Composites Part B: Engineering</i> , 2017 , 124, 134-143	21
328	Size effect on brittle and ductile fracture of two-dimensional interlinked carbon nanotube network. 2017 , 520, 82-88	4
327	Horizontally aligned carbon nanotube arrays: growth mechanism, controlled synthesis, characterization, properties and applications. 2017 , 46, 3661-3715	97
326	Carbon Nanotubes and Graphene for Microwave/RF Electronics Packaging. 2017, 147-167	2
325	Tissue Repair. 2017 ,	
324	New practical method of homogeneous dispersion of multi-walled carbon nanotubes (MWCNTs) into Mg matrix composites. 2017 , 182, 012028	2
323	A modified molecular-continuum model for estimating the strength and fracture toughness of graphene and carbon nanotube. 2017 , 176, 326-342	6
322	A representative and comprehensive review of the electrical and thermal properties of polymer composites with carbon nanotube and other nanoparticle fillers. 2017 , 66, 1237-1251	31
321	Flame-retardant carbon nanotube films. 2017 , 411, 177-181	15
320	Carbon Materials. 2017 , 429-462	1
319	The study of radiation effects in emerging micro and nano electro mechanical systems (M and NEMs). 2017 , 32, 013005	21
318	Effective elastic properties of two dimensional multiplanar hexagonal nanostructures. 2017 , 4, 025006	23
317	Multiscale modeling of carbon nanotube reinforced concrete. 2017 , 182, 251-260	20
316	On the formation of potential polymer-nanotube blends by liquid-solid phase separation. <i>Polymer</i> , 2017 , 131, 179-192	5

315 Adhesives with Nanoparticles. **2017**, 1-27

314	Tensile properties of millimeter-long multi-walled carbon nanotubes. 2017 , 7, 9512	47
313	Moisture and temperature influence on mechanical behavior of PPS/buckypapers carbon fiber laminates. 2017 , 4, 075302	2
312	Modeling of tensile testing on perfect and defective graphenylene nanotubes using molecular dynamics simulations. 2017 , 4, 085012	2
311	Simulation for Carbon Nanotube Dispersion and Microstructure Formation in CNTs/AZ91D Composite Fabricated by Ultrasonic Processing. 2017 , 48, 2256-2266	3
310	Textile fibers coated with carbon nanotubes for smart clothing applications. 2017,	1
309	Carbon Nanotubes. 2017 , 193-247	8
308	Electrical Conductance of a Zig Zag Carbon Nanotube in the Presence of a Few Vacancies Using Recursive Green's Function Method. 2017 , 6, M92-M96	
307	New Approach to Increase CNT Contents in Electrodeposited Ni-CNT Composite Thin Films by Modified Current Conditions. 2017 , 16, 931-938	
306	Mechanical properties and piezoresistive sensing capabilities of FRP composites incorporating CNT fibers. 2017 , 178, 1-8	23
305	Fluorination of Carbon Nanotubes 🖪 Review. 2017 , 200, 179-189	41
304	Application in powder metallurgy of CVD carbon nanofibres: microstructure and mechanical properties CNF reinforced Distaloy AQ. 2017 , 60, 345-352	1
303	Micromechanics modeling of the electrical conductivity of carbon nanotube cement-matrix composites. <i>Composites Part B: Engineering</i> , 2017 , 108, 451-469	84
302	Carbon nanotube electrodes for retinal implants: A study of structural and functional integration over time. 2017 , 112, 108-121	31
301	A comparison between the mechanical and thermal properties of single-walled carbon nanotubes and boron nitride nanotubes. 2017 , 85, 137-142	26
300	Dynamic stability analysis of multi-walled carbon nanotubes with arbitrary boundary conditions based on the nonlocal elasticity theory. <i>Mechanics of Advanced Materials and Structures</i> , 2017 , 24, 1180-1188	12
299	Surface amination of carbon nanoparticles for modification of epoxy resins: plasma-treatment vs. wet-chemistry approach. 2017 , 87, 422-448	39
298	Adsorption of anionic and cationic dyes from aqueous solution using gelatin-based magnetic nanocomposite beads comprising carboxylic acid functionalized carbon nanotube. 2017 , 308, 1133-1144	162

297 References. **2017**, 563-653

296	Isomerization of sp2-hybridized carbon nanomaterials: structural transformation and topological defects of fullerene, carbon nanotube, and graphene. 2017 , 7, e1283		13
295	Mechanical analysis of double-layered circular graphene sheets as building material embedded in an elastic medium. 2017 , 24, 2717-2724		8
294	Fabrication of Copper/Single-Walled Carbon Nanotube Composites by Electrodeposition Using Free-Standing Nanotube Film. 2017 , 164, D922-D929		9
293	Nano- and microstructures in and for braids. 2017 , 409-418		
292	Aluminum and Nickel Matrix Composites Reinforced by CNTs: Dispersion/Mixture by Ultrasonication. 2017 , 7, 279		33
291	An Overview of Pesticide Monitoring at Environmental Samples Using Carbon Nanotubes-Based Electrochemical Sensors. 2017 , 3, 8		18
290	Nanocarbons in Electrospun Polymeric Nanomats for Tissue Engineering: A Review. 2017 , 9,		63
289	Production of TiO2 Coated Multiwall Carbon Nanotubes by the Sol-Gel Technique. 2017 , 20, 96-103		18
288	Interfacial Mechanical Behaviors in Carbon Nanotube Assemblies. 2017,		2
287	Dry adhesives from carbon nanofibers grown in an open ethanol flame. 2017 , 8, 2719-2728		3
286	Mechanical properties of hollow and water-filled graphyne nanotube and carbon nanotube hybrid structure. <i>Nanotechnology</i> , 2018 , 29, 195702	3.4	5
285	Surface protection of austenitic steels by carbon nanotube coatings. 2018 , 6, 014005		5
284	Carbon nanomaterials for non-volatile memories. 2018 , 3,		64
283	EPlasmon absorbance films of carboxylic functionalized CNTs coupled with renewable PGP platforms. 2018 , 29, 1861-1869		3
282	Characterization and Evaluation of Nanofiber Materials. 2018 , 1-32		1
281	Simulating the effects of carbon nanotube continuity and interfacial bonding on composite strength and stiffness. 2018 , 166, 10-19		18
280	Nano-architected metamaterials: Carbon nanotube-based nanotrusses. <i>Carbon</i> , 2018 , 131, 38-46	10.4	22

279	Effect of interfacial reaction on Young's modulus in CNT/Al nanocomposite: A quantitative analysis. 2018 , 137, 84-90	13
278	Structural transformations of carbon and boron nitride nanoscrolls at high impact collisions. 2018 , 20, 4911-4916	11
277	Atomistic analysis to characterize the impact of temperature and defects on the mechanical properties of germanene sheet. 2018 , 5, 015062	13
276	Enhanced interfacial bonding and mechanical properties in CNT/Al composites fabricated by flake powder metallurgy. <i>Carbon</i> , 2018 , 130, 333-339	81
275	Young Modulus Enhancement and Measurement in CNT/Al Nanocomposites. 2018, 31, 1121-1129	6
274	Mechanical and electrical properties of carbon nanotube fibers from impregnation with poly(vinyl alcohol)/poly(acrylic acid) and subsequent thermal condensation. 2018 , 39, 971-977	4
273	Facile fabrication of PVA composite fibers with high fraction of multiwalled carbon nanotubes by gel spinning. 2018 , 58, 37-45	12
272	The role of thermal residual stress on the yielding behavior of carbon nanotubelluminum nanocomposites. 2018 , 14, 263-275	13
271	Carbon nanotubes: A potential material for energy conversion and storage. 2018 , 64, 219-253	129
270	Strong, ductile, and thermally conductive carbon nanotube-reinforced aluminum matrix composites fabricated by ball-milling and hot extrusion of powders encapsulated in aluminum containers. 5.3 Materials Science & Description of the structural Materials: Properties, Microstructure and Processing	21
269	Depth sensitivity of subsurface imaging using atomic force acoustic microscopy: FEA Study. 2018 , 2, 115021	1
268	Mechanical and Fracture Properties of Carbon Nanotubes. 2018,	
267	. 2018,	11
266	Processing and Properties of CNTs/ADC12 Nanocomposite. 2018, 27, 6737-6747	2
265	Carbon Nanotubes. 2018 , 133-164	
264	A Convenient Electrochemical Method for Preparing Carbon Nanotubes Filled with Amorphous Boron. 2018 , 165, E879-E882	6
263	Carbon Nanotube-Graphene Composites Fibers. 2018 , 61-86	1
262	High Impact Polystyrene/CNT nanocomposites: Application of volume segregation strategy and behavior under extensional deformation. <i>Polymer</i> , 2018 , 157, 156-165	6

261	Isolation of Silk Mesostructures for Electronic and Environmental Applications. 2018, 28, 1806380	44
260	In-situ characterization of bulk carbon nanotube behavior in a sheet under tensile load. 2018 , 17, 493-500	1
259	A Novel Strategy to Achieve Enhanced Reinforcement and Decreased Damping in CNT-Nanocomposites. 2018 , 2, 427	
258	Effects of Conformal Nanoscale Coatings on Thermal Performance of Vertically Aligned Carbon Nanotubes. 2018 , 14, e1800614	13
257	Investigation of affecting parameters on the effective modulus and natural frequency of wavy carbon nanotubes. 2018 , 121, 121-127	2
256	The toxicity and therapeutic effects of single-and multi-wall carbon nanotubes on mice breast cancer. 2018 , 8, 8375	55
255	Preparation of carbon nanofibers/tubes using waste tyres pyrolysis oil and coal fly ash derived catalyst. 2018 , 53, 1115-1122	10
254	Vibration Analysis of Bilayered Graphene Sheets for Building Materials in Thermal Environments Based on the Element-Free Method. 2018 , 2018, 1-14	1
253	Micromechanical analysis of carbon nanotube-coated fiber-reinforced hybrid composites. 2018 , 130, 215-229	49
252	19-Fold thermal conductivity increase of carbon nanotube bundles toward high-end thermal design applications. <i>Carbon</i> , 2018 , 139, 445-458	19
251	Preparation and application of hyperbranched polymer-modified polyethersulfone membrane containing NiPdBn-coated MWCNT for catalytic aryl halide coupling reactions. 2018 , 75, 5677-5694	2
250	Mechanical Properties of Isolated Carbon Nanotube. 2018 , 173-199	3
249	Solid state processed Al-1100 alloy/MWCNT surface nanocomposites. 2018 , 2, 196-207	15
248	Strengthening carbon nanotube fibers with semi-crystallized polyvinyl alcohol and hot-stretching. 2018 , 164, 290-295	20
247	Adhesives with Nanoparticles. 2018 , 1677-1702	1
246	Nanomechanics of graphene. 2019 , 6, 324-348	49
245	Free and forced vibration analysis of rectangular/circular/annular plates made of carbon fiber-carbon nanotube-polymer hybrid composites. 2019 , 26, 70-76	14
244	Enhanced arc erosion resistance of TiB2/Cu composites reinforced with the carbon nanotube network structure. 2019 , 183, 108136	22

243	The strength of mechanically-exfoliated monolayer graphene deformed on a rigid polymer substrate. 2019 , 11, 14339-14353		12
242	Enhancement in mechanical properties of multiwalled carbon nanotube-reinforced epoxy composites: Crosslinking of the reinforcement with the matrix via diamines. 2019 , 59, 1905-1910		3
241	Carbon nanotube-reinforced intermetallic matrix composites: processing challenges, consolidation, and mechanical properties. 2019 , 104, 3803-3820		2
240	Carbon Materials in Perovskite Solar Cells: Prospects and Future Challenges. 2019 , 2, 107-118		45
239	Evaluation of the sinterability, densification behaviour and microhardness of spark plasma sintered multiwall carbon nanotubes reinforced Ti6Al4V nanocomposites. <i>Ceramics International</i> , 2019 , 45, 19864	₽ 1 98	78 ¹³
238	Computing Buckling Characteristics of Double-Layered Graphene Film Embedded in an Elastic Foundation. 2019 , 19, 1950065		1
237	The rationale and emergence of electroconductive biomaterial scaffolds in cardiac tissue engineering. 2019 , 3, 041501		47
236	Micro-Crack Induced Buckypaper/PI Tape Hybrid Sensors with Enhanced and Tunable Piezo-Resistive Properties. 2019 , 9, 16920		7
235	The critical role of carbon in marrying silicon and graphite anodes for high-energy lithium-ion batteries. 2019 , 1, 57-76		154
234	Measurement of Friction Force Between Directly Integrated Carbon Nanotube Bundles in Tip-to-Tip Contact Using MEMS Tribometer Platform. 2019 ,		
233	Survivability of carbon nanotubes in space. 2019 , 165, 129-138		4
232	Influence of tool rotation speeds on mechanical and morphological properties of friction stir processed nano hybrid composite of MWCNT-Graphene-AZ31 magnesium. 2019 , 7, 487-500		27
231	Carbon Nanotube Assembly and Integration for Applications. 2019, 14, 220		118
230	Nickel coated carbon nanotubes in aluminum matrix composites: a multiscale simulation study. 2019 , 92, 1		9
229	An Overview of the Recent Developments in Metal Matrix Nanocomposites Reinforced by Graphene. <i>Materials</i> , 2019 , 12,	3.5	41
228	Understanding and control of interactions between carbon nanotubes and polymers for manufacturing of high-performance composite materials. 2019 , 183, 107795		27
227	Dispersion characteristics, interfacial bonding and nanostructural evolution of MWCNT in Ti6Al4V powders prepared by shift speed ball milling technique. 2019 , 785, 356-366		17
226	Optimization of Triton X-100 removal and ultrasound probe parameters in the preparation of multiwalled carbon nanotube buckypaper. 2019 , 166, 107612		30

225	Fabrication of aluminum-carbon nanotube nano-composite using aluminum-coated carbon nanotube precursor. 2019 , 53, 4055-4064	3	
224	Property improvement of CNT spun yarns and their composites through pressing, stretching and tensioning. 2019 , 28, 507-524	6	
223	n -ll Interaction Promoted Charge Carrier Transfer between Helical SWNTs and a 4-(1-Pyrenyl)phenyl Group. 2019 , 123, 13976-13982	3	
222	A new form of a HalpinIIsai micromechanical model for characterizing the mechanical properties of carbon nanotube-reinforced polymer nanocomposites. 2019 , 42, 1	12	
221	Interface strengthening mechanisms of Ti/CFRP fiber metal laminate after adding MWCNTs to resin matrix. <i>Composites Part B: Engineering</i> , 2019 , 171, 254-263	15	
220	Mechanical, tribological and electrical properties of Cu-CNT composites fabricated by flake powder metallurgy method. 2019 , 19, 694-706	31	
219	Highly porous multiwalled carbon nanotube buckypaper using electrospun polyacrylonitrile nanofiber as a sacrificial material. 2019 , 5, e01386	9	
218	Some basic aspects of polymer nanocomposites: A critical review. 2019 , 1, 2-30	278	
217	Stretchable sensors for environmental monitoring. 2019 , 6, 011309	50	
216	A Facile and Efficient Protocol for Preparing Residual-Free Single-Walled Carbon Nanotube Films for Stable Sensing Applications. <i>Nanomaterials</i> , 2019 , 9,	13	
215	Characterization of Optimal Carbon Nanotubes Under Stretching and Validation of the Cauchy B orn Rule. 2019 , 231, 465-517	2	
214	Carbon Nanotubes and Graphene as Nanoreinforcements in Metallic Biomaterials: a Review. 2019 , 3, e1800212	38	
213	Characterization, mechanical and in vitro biological behavior of hydroxyapatite-titanium-carbon nanotube composite coatings deposited on NiTi alloy by electrophoretic deposition. 2019 , 363, 179-190	33	
212	How do the mechanical properties of carbon nanotubes increase? An experimental evaluation and modeling of the engineering tensile strength of individual carbon nanotubes. 2019 , 6, 055047	21	
211	Flexible Carbon Nanotube Sensors with Screen Printed and Interdigitated Electrodes. 2019,	1	
210	A Modified Energy Method for Equilibrium Structure and Strain Energy of Armchair Single-Walled Carbon Nanotubes. 2019 , 298, 202-207		
209	Effect of microwave treatment exposure time on functionalization and purification of multi-walled carbon nanotubes (MWCNTs). 2019 , 125, 1	2	
208	Influence of TiO2 and MWCNT nanoparticles dispersion on microstructure and mechanical properties of Al6061 matrix hybrid nanocomposites. 2019 , 6, 1265f3	5	

207	In situ nanomechanical research on large-scale plastic deformation of individual ultrathin multi-walled carbon nanotube. 2019 , 32, 485-490		О
206	Thermal Conductivity and Tensile Properties of Carbon Nanofiber-Reinforced Aluminum-Matrix Composites Fabricated via Powder Metallurgy: Effects of Ball Milling and Extrusion Conditions on Microstructures and Resultant Composite Properties. 2019 , 32, 573-584		9
205	Synergistic effect of welding electrospun fibers and MWCNT reinforcement on strength enhancement of PANBVC non-woven mats for water filtration. 2019 , 193, 230-242		24
204	Tensile characteristics of single-walled carbon nanotubes endohedrally decorated with gold nanowires: A molecular dynamics study. 2019 , 92, 117-129		13
203	Cosmetic reconstruction in breast cancer patients: Opportunities for nanocomposite materials. 2019 , 86, 41-65		9
202	A Review of Spark Plasma Sintering of Carbon Nanotubes Reinforced Titanium-Based Nanocomposites: Fabrication, Densification, and Mechanical Properties. 2019 , 71, 567-584		14
201	Titanium dioxide protection against Al4C3 formation during fabrication of aluminum-TiO2 coated MWCNT composite. 2019 , 780, 772-782		9
2 00	Properties and behavior of carbon nanomaterials when interfacing neuronal cells: How far have we come?. <i>Carbon</i> , 2019 , 143, 430-446	10.4	80
199	Mechanical, thermal and electrical properties of nanostructured CNTs/SiC composites. <i>Ceramics International</i> , 2019 , 45, 2566-2575	5.1	19
198	Storage of Mechanical Energy Based on Carbon Nanotubes with High Energy Density and Power Density. 2019 , 31, e1800680		31
197	Analysis of Carbon Nanotube Arrays for Their Potential Use as Adhesives Under Harsh Conditions as in Space Technology. 2019 , 67, 1		6
196	Molecular-continuum model for the prediction of stiffness, strength and toughness of nanomaterials. 2019 , 230, 1451-1467		4
195	On the Free Vibrations of Piezoelectric Carbon Nanotube-Reinforced Microbeams: A Multiscale Finite Element Approach. 2019 , 43, 285-294		8
194	Low velocity impact analysis of beams made of short carbon fiber/carbon nanotube-polymer composite: A hierarchical finite element approach. <i>Mechanics of Advanced Materials and Structures</i> , 2019 , 26, 1104-1114	1.8	13
193	Preparation, properties and in vitro cellular response of multi-walled carbon nanotubes/bioactive glass/poly(etheretherketone) biocomposite for bone tissue engineering. 2019 , 68, 433-441		12
192	Elastoplastic behavior of the metal matrix nanocomposites containing carbon nanotubes: A micromechanics-based analysis. 2019 , 233, 676-686		4
191	Investigation of the effect of CNTs on the mechanical properties of LPET/glass fiber thermoplastic composites. 2020 , 33, 1652-1673		4
190	Mechanical properties of carbon-nanotube-reinforced cementitious materials: database and statistical analysis. 2020 , 72, 1047-1071		27

(2020-2020)

189	Aligned multi-walled carbon nanotubes with nanohydroxyapatite in a 3D printed polycaprolactone scaffold stimulates osteogenic differentiation. 2020 , 108, 110374		32
188	Mechanisms of mechanical reinforcement by graphene and carbon nanotubes in polymer nanocomposites. 2020 , 12, 2228-2267		121
187	Size-dependent dynamic characteristics of graphene based multi-layer nano hetero-structures. <i>Nanotechnology</i> , 2020 , 31, 145705	3.4	18
186	The critical role of the forest morphology for dry drawability of few-walled carbon nanotubes. <i>Carbon</i> , 2020 , 158, 662-671	10.4	6
185	When does nanotube grafting on fibers benefit the strength and toughness of composites?. 2020 , 188, 107989		10
184	Influence of hybrid graphene oxide/carbon nanotubes on the mechanical properties and microstructure of magnesium potassium phosphate cement paste. <i>Construction and Building Materials</i> , 2020 , 260, 120449	6.7	9
183	Enhancements of foamability, electromagnetic interference shielding and mechanical property of epoxy microcellular composite foam with well-dispersed f-MWCNTs. 2020 , 138, 106060		21
182	Carbon nanotubes and their polymeric composites: the applications in tissue engineering. 2020 , 5, 1		25
181	Fiber Composites Made of Low-Dimensional Carbon Materials. 2020,		
180	Lattice and continuum based modeling of 2D materials. 2020 , 165-177		
179	Poly(ethylene Terephthalate) Carbon-Based Nanocomposites: A Crystallization and Molecular Orientation Study. 2020 , 12,		5
178	Exploring the effectiveness of incorporating carbon nanotubes into bioengineered scaffolds to improve cardiomyocyte function. 2020 , 13, 1347-1366		2
177	Quantum effects on the mechanical properties of fine-scale CNTs: an approach based on DFT and molecular mechanics model. 2020 , 135, 1		6
176	Thermal Investigations on Carbon Nanotubes by Spectroscopic Techniques. 2020 , 10, 8159		2
175	Polyetheretherketone and Its Composites for Bone Replacement and Regeneration. 2020, 12,		18
174	Microbial fuel cells with yeast biofilms anode and buckypaper cathode. 2020 , 463, 012009		
173	Dry Drawability of Few-Walled Carbon Nanotubes Grown by Alcohol Chemical Vapor Deposition. 2020 , 124, 17331-17339		1
172	Probabilistic model for flexural strength of carbon nanotube reinforced cement-based materials. 2020 , 253, 112748		22

171	Optimized Separative Power of Hyperspeed Iguassu Gas Centrifuge: Dependence on the Rotor Diameter and Velocity. 2020 , 194, 1105-1115		7
170	Carbon Nanotubes. 2020 , 107-147		
169	. 2020,		2
168	A Comprehensive Review on CNTs and CNT-Reinforced Composites: Syntheses, Characteristics and Applications. 2020 , 25, 101546		49
167	Super-durable ultralong carbon nanotubes. 2020 , 369, 1104-1106		42
166	On the elastic rod models for mechanical tests of one-dimensional nanostructures under transverse loads. 2020 , 128, 164303		2
165	Molecular Dynamics Simulation of Calcium-Silicate-Hydrate for Nano-Engineered Cement Composites-A Review. <i>Nanomaterials</i> , 2020 , 10,	5.4	13
164	Investigation of the relationship between adhesion force and mechanical behavior of vertically aligned carbon nanotube arrays. <i>Nanotechnology</i> , 2020 , 31, 295701	3.4	2
163	Microstructure and mechanical properties of zinc matrix composites reinforced with copper coated multiwall carbon nanotubes. 2020 , 7, 066516		3
162	Novel method for carbon nanotube growth using vapor-phase catalyst delivery. 2020 , 13, 2050026		
161	Carbon nanotube-incorporated cellulose nanocomposite sheet for flexible technology. 2020 , 43, 1		4
160	Synergistic strengthening effect of carbon nanotubes (CNTs) and titanium diboride (TiB2) microparticles on mechanical properties of copper matrix composites. 2020 , 9, 7989-8000		17
159	An iterative method for identification of temperature and amplitude dependent material parameters of fiber-reinforced polymer composites. 2020 , 184, 105818		13
158	Electrode materials for supercapacitors. 2020 , 35-204		3
157	On the Molecular to Continuum Modeling of Fiber-Reinforced Composites. 2020 , 3, 1900211		2
156	Materials, systems, and devices for wearable bioelectronics. 2020 , 1-48		
155	A critical role of interphase properties and features on mechanical properties of poly(vinyl alcohol) (PVA) bionanocomposites: nanoscaled characterisation and modelling. 2020 , 115-136		
154	Mathematical modeling and simulation. 2020 , 101-156		1

(2021-2020)

153	Influence of serrated edge and rectangular strips of MWCNT buckypaper on the electromagnetic properties of glass fiber/epoxy resin composites. <i>Carbon</i> , 2020 , 160, 317-327	17
152	Fabrication and Characterization of Solid Composite Yarns from Carbon Nanotubes and Poly(dicyclopentadiene). <i>Nanomaterials</i> , 2020 , 10,	4
151	Electrochemiluminescence revealing that HNO3-oxidized single-walled carbon nanotubes are essentially tubular graphene quantum dot-nanoassemblies. 2020 , 525, 146432	5
150	Preparation method and underlying mechanism of MWCNTs/Ti6Al4V nanocomposite powder for selective laser melting additive manufacturing. 2020 , 368, 59-69	11
149	The standard strength test of 3D printing materials and its application for UAV propellers. 2020 , 34, 2040017	2
148	A review on the mechanical properties of polymer composites reinforced by carbon nanotubes and graphene. <i>Carbon Letters</i> , 2021 , 31, 149-165	48
147	Recent research and progress of biodegradable zinc alloys and composites for biomedical applications: Biomechanical and biocorrosion perspectives. 2021 , 6, 836-879	61
146	Dispersion and fluorescence properties of multiwalled carbon nanotubes modified with hyperbranched poly(phenylalanine-lysine). 2021 , 608, 125557	5
145	Large variation in Young's modulus of carbon nanotube yarns with different diameters. 2021, 21, 96-100	1
144	Boron nitride nanocomposites for microwave absorption: A review. 2021 , 13, 100108	15
143	Design and Crosstalk Analysis in Carbon Nanotube Interconnects. 2021 ,	1
142	Microwave processing of polymer composites. 2021 , 351-380	1
141	Carbon nanotube-reduced graphene oxide fiber with high torsional strength from rheological hierarchy control. 2021 , 12, 396	10
140	Appendix: Carbon nanotubes. 2021 , 187-211	
139	Silicon Carbide Biotechnology: Carbon-Based Neural Interfaces. 2021, 777-790	
138	Structural Analysis of Al-CNT Nanocomposite Using X-Ray Diffraction. 875, 138-145	
137	Smart nano-micro platforms for ophthalmological applications: The state-of-the-art and future perspectives. 2021 , 270, 120682	7
136	Controllable fabrication of lightweight carbon with hierarchically hollow structure for enhanced microwave absorption. 2021 , 113, 108285	1

135	A Wearable, Bending-Insensitive Respiration Sensor Using Highly Oriented Carbon Nanotube Film. 2021 , 21, 7308-7315		5
134	Investigation of shear forces in twisted carbon nanotube bundles using a structural mechanics approach. 2021 , 232, 2425-2441		О
133	Elastic modulus formulation of cementitious materials incorporating carbon nanotubes: Probabilistic approach. <i>Construction and Building Materials</i> , 2021 , 274, 122092	6.7	15
132	Analysis of quantum effects of fine scaling on the axial buckling of MWCNTs based on the density functional theory and molecular mechanics method. 2021 , 127, 1		3
131	Compound influence of topological defects and heteroatomic inclusions on the mechanical properties of SWCNTs. 2021 , 26, 102021		12
130	Optimizing Structural and Mechanical Properties of Coiled Carbon Nanotubes with NSGA-II and Reactive Molecular Dynamics Simulation. 2021 , 125, 6237-6248		2
129	Microfluidics for flexible electronics. 2021 , 44, 105-135		26
128	Synthesis of tunable high-thermal stability carbon dots via functionalization for applications in high-temperature environment. 2021 , 11, 1691-1706		2
127	Study on the mechanical and electrical properties of twisted CNT yarns fabricated from CNTs with various diameters. <i>Carbon</i> , 2021 , 176, 400-410	10.4	6
126	The Importance of Structural Factors for the Electrochemical Performance of Graphene/Carbon Nanotube/Melamine Powders towards the Catalytic Activity of Oxygen Reduction Reaction. <i>Materials</i> , 2021 , 14,	3.5	19
125	Continuous growth of carbon nanotube films: From controllable synthesis to real applications. 2021 , 144, 106359		3
124	A comprehensive assessment of empirical potentials for carbon materials. 2021 , 9, 061102		10
123	Tribological Behavior of Carbon-Based Nanomaterial-Reinforced Nickel Metal Matrix Composites. <i>Materials</i> , 2021 , 14,	3.5	4
122	Thermal and electrical properties enhancement of a nanocomposite of industrial silicone rubber filled with reduced graphene oxide. 1-11		O
121	Degradation of Carbon Nanotube Array Thermal Interface Materials through Thermal Aging: Effects of Bonding, Array Height, and Catalyst Oxidation. 2021 , 13, 30992-31000		4
120	Effect of CNT content on microstructure and hardness of AlSi/MWCNT nano composite. 2021 , 49, 1345-	1345	1
119	Aluminum-Air Battery with Buckypaper Air Cathode. 891, 99-104		0
118	Fabrication and the mechanical and physical properties of nanocarbon-reinforced light metal matrix composites: A review and future directions. <i>Materials Science & Discourse A: Structural Materials: Properties, Microstructure and Processing,</i> 2021 , 820, 141542	5.3	9

(2021-2021)

117	Mechanical Robustness of Metal Nanocomposites Rendered by Graphene Functionalization. 2021 , 21, 5706-5713	3
116	Semi-analytical atomic-level uncertainty quantification for the elastic properties of 2D materials. 2021 , 15, 100126	3
115	Characterizations of Polypropylene/Single-Walled Carbon Nanotube Nanocomposites Prepared by the Novel Melt Processing Technique with a Controlled Residence Time. 2021 , 9, 1395	1
114	Facile synthesis and applications of carbon nanotubes in heavy-metal remediation and biomedical fields: A comprehensive review. 2021 , 1238, 130462	26
113	Designing Materials and Processes for Strong Polyacrylonitrile Precursor Fibers. 2021 , 13,	O
112	Fluorescence and structural properties of polyvinyl alcohol fibers modified with multiwalled carbon nanotubes-hyperbranched poly (phenylalanine-lysine). 1	O
111	Multiscale modeling and numerical analyses of the electric conductivity of CNT/polymer nanocomposites taking into account the tunneling effect. e2955	O
110	Proposal of Analytical Model of Tensile Property of Untwisted Carbon Nanotube Yarn and Estimation of Tensile Property of Carbon Nanotube. 2021 , 62, 1291-1297	1
109	Epitaxial pyrolytic carbon coatings templated with defective carbon nanotube cores for structural annealing and tensile property improvement. 1	1
108	Functionalized Carbon Nano-Membranes Based Devices for Water Purification Technology. 2021 , 331-346	
107	Dependence of secondary operations in powder metallurgy and their impact on the electrical conductivity of MWCNTs/Cu nanocomposites. 2021 , 49, 2143-2143	
107		1
,	conductivity of MWCNTs/Cu nanocomposites. 2021 , 49, 2143-2143	1 5
106	conductivity of MWCNTs/Cu nanocomposites. 2021 , 49, 2143-2143 MXene/Carbon Nanotube Hybrids: Synthesis, Structures, Properties, and Applications. 2021 , 14, 5079-5111 Micro-cracking pattern recognition of hybrid CNTs/GNPs cement pastes under three-point bending	
106	conductivity of MWCNTs/Cu nanocomposites. 2021, 49, 2143-2143 MXene/Carbon Nanotube Hybrids: Synthesis, Structures, Properties, and Applications. 2021, 14, 5079-5111 Micro-cracking pattern recognition of hybrid CNTs/GNPs cement pastes under three-point bending loading using acoustic emission technique. 2021, 42, 102816	5
106	conductivity of MWCNTs/Cu nanocomposites. 2021, 49, 2143-2143 MXene/Carbon Nanotube Hybrids: Synthesis, Structures, Properties, and Applications. 2021, 14, 5079-5111 Micro-cracking pattern recognition of hybrid CNTs/GNPs cement pastes under three-point bending loading using acoustic emission technique. 2021, 42, 102816 Multiphase direct ink writing (MDIW) for multilayered polymer/nanoparticle composites. 2021, 47, 102322	5
106 105 104	MXene/Carbon Nanotube Hybrids: Synthesis, Structures, Properties, and Applications. 2021, 14, 5079-5111 Micro-cracking pattern recognition of hybrid CNTs/GNPs cement pastes under three-point bending loading using acoustic emission technique. 2021, 42, 102816 Multiphase direct ink writing (MDIW) for multilayered polymer/nanoparticle composites. 2021, 47, 102322 MRI magnetic compatible electrical neural interface: From materials to application. 2021, 194, 113592 Mathematical Modeling of Elastic Plastic Transitional Stresses in CNT-GS based Hybrid	5

99	Preparation of high-performance carbon nanotube/polyamide composite materials by elastic high-shear kneading and improvement of properties by induction heating treatment. 2021 , 138, 50512		1
98	Extreme Energy Dissipation via Material Evolution in Carbon Nanotube Mats. 2021 , 8, 2003142		2
97	Fabrication and Fatigue of Fiber-Reinforced Polymer Nanocomposites 🛭 Tool for Quality Control. 335-	368	1
96	Field Emission Microscopy of Multiwall CNTs. 95-107		3
95	Silicon-Based Anodes for Li-Ion Batteries. 2013 , 471-504		2
94	Characterization and Evaluation of Nanofiber Materials. 2019 , 491-522		6
93	CNT Applications in Displays and Transparent, Conductive Films/Substrates. 2018, 73-75		1
92	Introduction to Carbon Nanotubes. 2007 , 43-112		22
91	Multi-Walled Carbon Nanotubes. 2013 , 147-188		22
90	Introduction. Springer Theses, 2012 , 1-78	0.1	4
89	Introduction to Carbon Nanotubes. 2004 , 39-98		1
88	Probabilistic Strength of Carbon Nanotube Yarns. Solid Mechanics and Its Applications, 2009, 211-222	0.4	2
88 8 ₇	Probabilistic Strength of Carbon Nanotube Yarns. <i>Solid Mechanics and Its Applications</i> , 2009 , 211-222 Absorption and Transportation of Carbon Nanotubes. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 65-68	0.4	2
	Absorption and Transportation of Carbon Nanotubes. SpringerBriefs in Applied Sciences and	•	
87	Absorption and Transportation of Carbon Nanotubes. SpringerBriefs in Applied Sciences and Technology, 2019, 65-68 Bending moduli for forty-four select atomic monolayers from first principles. Nanotechnology, 2020	0.4	2
8 ₇ 86	Absorption and Transportation of Carbon Nanotubes. SpringerBriefs in Applied Sciences and Technology, 2019, 65-68 Bending moduli for forty-four select atomic monolayers from first principles. Nanotechnology, 2020, 31, 43LT01 Al/MWCNT Composite Layer Deposition on Aluminum Alloy Substrate by Selective Laser Melting and Flame Spray. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019,	0.4	2
87 86 85	Absorption and Transportation of Carbon Nanotubes. SpringerBriefs in Applied Sciences and Technology, 2019, 65-68 Bending moduli for forty-four select atomic monolayers from first principles. Nanotechnology, 2020, 31, 43LT01 Al/MWCNT Composite Layer Deposition on Aluminum Alloy Substrate by Selective Laser Melting and Flame Spray. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141,	0.4	2 12 2

81	Nanomechanical studies of MEMS structures. <i>International Journal of Materials Research</i> , 2007 , 98, 384	1-38.8	7
80	Effect of Multi-Walled Carbon Nanotubes on Strength and Electrical Properties of Cement Mortar. <i>Materials</i> , 2020 , 14,	3.5	8
79	A New Route to Enhance the Packing Density of Buckypaper for Superior Piezoresistive Sensor Characteristics. <i>Sensors</i> , 2020 , 20,	3.8	1
78	Carbon Nanotube Synthesis and Growth Using Zeolite by Catalytic CVD and Applications. <i>Journal of the Korean Ceramic Society</i> , 2013 , 50, 1-17	2.2	5
77	Carbon nanotubes-properties and applications: a review. Carbon Letters, 2013, 14, 131-144	2.3	236
76	Investigation of the Resistance Dependence on Temperature of Single Carbon Nanotube in Different Environments. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 125101	1.4	2
75	Removal of methylene blue from wastewater using hydrogel nanocomposites: A review. <i>Nanomaterials and Nanotechnology</i> , 2021 , 11, 184798042110394	2.9	5
74	Mechanical Behavior of Single and Bundled Defect-Free Carbon Nanotubes. <i>Accounts of Materials Research</i> ,	7.5	5
73	Self-assembly behavior of ultra-high molecular weight in-situ anionically synthesized polymer matrix composite materials grafted from ingle- or multi-wall CNTs. <i>Polymer</i> , 2021 , 235, 124243	3.9	О
72	Nanomanipulator Measurements of the Mechanics of Nanostructures and Nanocomposites. <i>Nanoscience and Technology</i> , 2005 , 307-337	0.6	
71	Enhancement of the Mechanical Strength of Polymer-Based Composites Using Carbon Nanotubes. 2005 ,		
70	Investigating Individual Carbon Nanotube/Polymer Interfaces with Scanning Probe Microscopy. <i>Nanoscience and Technology</i> , 2007 , 287-323	0.6	
69	Carbon Nanotube Polymer Composites. 2009 , 3-22		O
68	Encyclopedia of Sustainability Science and Technology. 2012 , 9293-9316		
67	Investigation of mechanical properties of multilayer carbon nanotubes. <i>Nauka I Obrazovanie</i> , 2013 , 13,		
66	Zastosowania nanorurek wglowych. 2014 ,		
65	Charpy Impact Resistances of Carbon Nanotubes Reinforced High Density Polyethylene Nanocomposite Materials. <i>International Journal of Materials Mechanics and Manufacturing</i> , 247-250	0.3	
64	Sound field simulation of ultrasonic processing to fabricate carbon nanotubes reinforced AZ91D composites. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015 , 64, 144302	0.6	1

63	Carbon Nanotubes: Synthesis, Properties and Applications. 89-138		5
62	Thermal Properties of Inorganic Nanostructures. Series in Materials Science and Engineering, 2016, 247-2	267	
61	Carbon nanotube electrodes for retinal implants: a study of structural and functional integration over time.		
60	Carbon Nanotube-/Graphene-Reinforced Ceramic Composites. 2017 , 599-625		O
59	Scaffolds Reinforced by Fibers or Tubes for Soft Tissue Repair. 2017 , 261-304		
58	Prediction of Carbon Nanotube Buckypaper Mechanical Properties with Integrated Physics-Based and Statistical Models. 307-333		
57	Deformed Carbon Nanotubes. SpringerBriefs in Applied Sciences and Technology, 2018, 55-78	0.4	
56	Introduction. SpringerBriefs in Applied Sciences and Technology, 2018, 1-15	0.4	
55	Experimental study on simultaneously measuring Young's modulus and internal fraction using self-mixing system. 2018 ,		
54	PVA/BC Bionancomposite Films with Particle Size Effect. 2021 , 55-81		
53	Nanocellulose-Based Supercapacitor. 2020 ,		
52	Significantly enhanced photoresponse of carbon nanotube films modified with cesium tungsten bronze nanoclusters in the visible to short-wave infrared range <i>RSC Advances</i> , 2021 , 11, 39646-39656	3.7	1
51	Origins of mechanical preconditioning in hierarchical nanofibrous materials. <i>Extreme Mechanics Letters</i> , 2022 , 50, 101576	3.9	О
50	Carbon Nanotubes: General Introduction. 2022 , 1-13		
49	Shape memory effect of Cu Al1-nitinol/MWCNT nanocomposites for actuators in MEMS. <i>Sensors and Actuators A: Physical</i> , 2022 , 334, 113327	3.9	1
48	High-strength and toughness carbon nanotube fiber/resin composites by controllable wet-stretching and stepped pressing. <i>Carbon</i> , 2022 , 189, 1-9	10.4	2
47	Axial Stiffness of Multiwalled Carbon Nanotubes as a Function of the Number of Walls. <i>Ukrainian Journal of Physics</i> , 2022 , 57, 933	0.4	
46	Effective electrical conductivity of CNT/polymer nanocomposites. 2020,		

45	Carbon nanotube reinforced cementitious composites: A comprehensive review. <i>Construction and Building Materials</i> , 2022 , 315, 125100	6.7	8
44	Thermotropic liquid crystalline/multiwalled carbon nanotubes nanocomposites. 2022, 91-116		
43	Effect of plasma-species to functionalize isocyanate-groups on multiwalled carbon nanotubes. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2022 , 40, 012804	1.3	O
42	Effect of carbon nanotube surface modification on tensile properties of carbon fiber epoxy impregnated bundle composites. <i>Polymers and Polymer Composites</i> , 2022 , 30, 096739112110676	0.8	
41	Effect of chiral angle and chiral index on the vibration of single-walled carbon nanotubes using nonlocal Euler-Bernoulli beam model. <i>Computational Condensed Matter</i> , 2022 , 30, e00655	1.7	O
40	Sequestration of Organic Dyes from Wastewater Using Hydrogel Nanocomposites. <i>Springer Series in Materials Science</i> , 2022 , 201-223	0.9	
39	Synthesis of Super-Long Carbon Nanotubes from Cellulosic Biomass under Microwave Radiation <i>Nanomaterials</i> , 2022 , 12,	5.4	2
38	Characterizing the Effect of Adding Boron Nitride Nanotubes on the Mechanical Properties of Electrospun Polymer Nanocomposite Microfibers Mesh <i>Materials</i> , 2022 , 15,	3.5	
37	Chemical Functionalization of Carbon Nanotubes and Applications to Sensors. 2022, 261-286		1
36	Effective polymerization technique for plasma-treated multiwalled carbon nanotubes to maximize wear resistance of composite polyurethane. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2022 , 40, 022803	1.3	1
35	Mechano-tribological performance of Graphene/CNT reinforced alumina nanocomposites [Review and quantitative insights. <i>Ceramics International</i> , 2022 , 48, 11879-11908	5.1	2
34	Micromechanics-based phase field fracture modelling of CNT composites. <i>Composites Part B: Engineering</i> , 2022 , 236, 109788	10	1
33	Insights into thermal characteristics of spiral carbon-based nanomaterials: From heat transport mechanisms to tunable thermal diode behavior. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 189, 122719	4.9	
32	Extreme Dynamic Performance of Nanofiber Mats under Supersonic Impacts Mediated by Interfacial Hydrogen Bonds. <i>ACS Nano</i> , 2021 ,	16.7	2
31	Bending characteristics of carbon nanotubes: Micropolar elasticity models and molecular dynamics simulations. <i>Mechanics of Advanced Materials and Structures</i> , 1-18	1.8	2
30	Numerical and experimental investigation of first ply failure response of multi-walled carbon nanotubes/epoxy/glass fiber hybrid laminated tapered curved composite panels. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622210858	1.3	
29	Effect of dual-modified CNTs on strength and chloride resistance of cementitious systems. <i>Advances in Cement Research</i> , 1-44	1.8	
28	Experimental investigation of the friction modifying effects of different nanoforms of graphene additives in engine lubricating oil. <i>FME Transactions</i> , 2022 , 50, 248-259	1.6	

The preparation of rigid hybrid silicone resins by combining carbon nanomaterial loading nanoparticles. Mechanical properties of nanotubes. 2022, 445-480 Accritical Review on Waste Plastic into Value-Added Hydrocarbons and Fuels. 2022, 149-156 Thermal properties of nanoparticle-based polymer composites. 2022, 119-150 Thermal properties of nanoparticle death of multi-walled carbon nanotubes: a low dose repeated intertracted administrations study. Thermal properties of nanoparticle-based polymer composites. 2022, 130, 109427 Thermal properties of nanoparticle-based polymer composites with utrahigh mechanical properties improvement. 2022, 130, 109427 Thermal properties of ReaxFF potentials for sp2 carbon systems (graphene, carbon Nanotube fiber-and polymer pol	27	Tensile properties and fracture behavior of carbon nanotube-sheets/carbon fibers epoxy-impregnated bundle composites. <i>Polymers and Polymer Composites</i> , 2022 , 30, 096739112211094 O.8	
Experimental investigation and finite element modelling of PMMA/carbon nanotube nanobiocomposites for bone cement applications. 2022, 18, 6800-6811 23 Thermal properties of nanoparticle-based polymer composites. 2022, 119-150 24 Characterization and in vivo toxicological evaluation of multi-walled carbon nanotubes: a low dose repeated intratracheal administrations study. 25 Evaluating the performance of ReaxFF potentials for sp2 carbon systems (graphene, carbon nanotubes, fullerenes) and a new ReaxFF potential. 10, 26 Low-loading oxidized multi-walled carbon nanotube grafted waterborne polyurethane composites with ultrahigh mechanical properties improvement. 2022, 130, 109427 27 Controllable Preparation and Strengthening Strategies towards High-Strength Carbon Nanotube Fibers. 2022, 12, 3478 28 Multi-level micromechanics-based homogenization for the prediction of damage behavior of multiscale fiber-reinforced composites. 2023, 303, 116332 29 Covalent three-dimensional carbon nanotube and derived B-C-N polymorphs with superhardness and zero PoissonB ratio. 2022, 105563 20 Carbon Nanotubes: General Introduction. 2022, 1321-1333 21 Tannery wastes-derived gelatin and carbon nanotubes composite beads: adsorption and reuse studies using tartrazine yellow dye. 2022, 27, 22 Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X2211445 23 Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X2211445 24 Effect of Annealing and Diameter on Tensile Property of Spinnable Carbon Nanotube and Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389	26		
Thermal properties of nanoparticle-based polymer composites. 2022, 119-150 Characterization and in vivo toxicological evaluation of multi-walled carbon nanotubes: a low dose repeated intratracheal administrations study. Evaluating the performance of ReaxFF potentials for sp2 carbon systems (graphene, carbon nanotubes, fullerenes) and a new ReaxFF potential. 10, Low-loading oxidized multi-walled carbon nanotube grafted waterborne polyurethane composites with ultrahigh mechanical properties improvement. 2022, 130, 109427 Controllable Preparation and Strengthening Strategies towards High-Strength Carbon Nanotube Fibers. 2022, 12, 3478 Multi-level micromechanics-based homogenization for the prediction of damage behavior of multiscale fiber-reinforced composites. 2023, 303, 116332 Covalent three-dimensional carbon nanotube and derived B-C-N polymorphs with superhardness and zero PoissonB ratio. 2022, 105563 Carbon Nanotubes: General Introduction. 2022, 1321-1333 Tannery wastes-derived gelatin and carbon nanotubes composite beads: adsorption and reuse studies using tartrazine yellow dye. 2022, 27, A Critical Review on Waste Plastic into Value-Added Hydrocarbons and Fuels. 2023, 145-156 Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X2211445 Effect of Annealing and Diameter on Tensile Property of Spinnable Carbon Nanotube and Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389	25	Mechanical properties of nanotubes. 2022 , 445-480	0
Controllable Preparation and Strengthening Strategies towards High-Strength Carbon Nanotube Fibers. 2022, 12, 3478 Controllable Preparation and Strengthening Strategies towards High-Strength Carbon Nanotube Fibers. 2022, 12, 3478 Controllable Preparation and Strengthening Strategies towards High-Strength Carbon Nanotube Fibers. 2022, 12, 3478 Controllable Preparation and Strengthening Strategies towards High-Strength Carbon Nanotube Fibers. 2022, 12, 3478 Covalent three-dimensional carbon nanotube and derived B-C-N polymorphs with superhardness and zero PoissonB ratio. 2022, 105563 Carbon Nanotubes: General Introduction. 2022, 1321-1333 Carbon Nanotubes: General Introduction. 2022, 27, Carbon Nanotube And Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389 Carbon Nanotubes: General Introduction. 2022, 27, 27, 2022, 27, 2022, 27, 2022, 27, 2022, 27, 2022, 27, 2022, 27, 2022, 27, 2022, 27, 2022, 27, 2022, 27, 2022, 27, 2022, 27, 2022, 27, 2022, 27, 2022, 2022, 27, 2022, 2022, 2022, 202	24		O
repeated intratracheal administrations study. Evaluating the performance of ReaxFF potentials for sp2 carbon systems (graphene, carbon nanotubes, fullerenes) and a new ReaxFF potential. 10, Low-loading oxidized multi-walled carbon nanotube grafted waterborne polyurethane composites with ultrahigh mechanical properties improvement. 2022, 130, 109427 Controllable Preparation and Strengthening Strategies towards High-Strength Carbon Nanotube Fibers. 2022, 12, 3478 Multi-level micromechanics-based homogenization for the prediction of damage behavior of multiscale fiber-reinforced composites. 2023, 303, 116332 Covalent three-dimensional carbon nanotube and derived B-C-N polymorphs with superhardness and zero PoissonB ratio. 2022, 105563 Carbon Nanotubes: General Introduction. 2022, 1321-1333 o Tannery wastes-derived gelatin and carbon nanotubes composite beads: adsorption and reuse studies using tartrazine yellow dye. 2022, 27, A Critical Review on Waste Plastic into Value-Added Hydrocarbons and Fuels. 2023, 145-156 Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X2211445 Effect of Annealing and Diameter on Tensile Property of Spinnable Carbon Nanotube and Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389 Processing of Composite Electrodes of Carbon Nanotube Fabrics and Inorganic Matrices via Rapid	23	Thermal properties of nanoparticle-based polymer composites. 2022 , 119-150	0
nanotubes, fullerenes) and a new ReaxFF potential. 10, Low-loading oxidized multi-walled carbon nanotube grafted waterborne polyurethane composites with ultrahigh mechanical properties improvement. 2022, 130, 109427 Controllable Preparation and Strengthening Strategies towards High-Strength Carbon Nanotube Fibers. 2022, 12, 3478 Multi-level micromechanics-based homogenization for the prediction of damage behavior of multiscale fiber-reinforced composites. 2023, 303, 116332 Covalent three-dimensional carbon nanotube and derived B-C-N polymorphs with superhardness and zero PoissonBratio. 2022, 105563 Carbon Nanotubes: General Introduction. 2022, 1321-1333 o Tannery wastes-derived gelatin and carbon nanotubes composite beads: adsorption and reuse studies using tartrazine yellow dye. 2022, 27, A Critical Review on Waste Plastic into Value-Added Hydrocarbons and Fuels. 2023, 145-156 Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X2211445 Effect of Annealing and Diameter on Tensile Property of Spinnable Carbon Nanotube and Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389 Processing of Composite Electrodes of Carbon Nanotube Fabrics and Inorganic Matrices via Rapid	22		O
with ultrahigh mechanical properties improvement. 2022, 130, 109427 Controllable Preparation and Strengthening Strategies towards High-Strength Carbon Nanotube Fibers. 2022, 12, 3478 Multi-level micromechanics-based homogenization for the prediction of damage behavior of multiscale fiber-reinforced composites. 2023, 303, 116332 Covalent three-dimensional carbon nanotube and derived B-C-N polymorphs with superhardness and zero Poisson Fratio. 2022, 105563 Carbon Nanotubes: General Introduction. 2022, 1321-1333 o Tannery wastes-derived gelatin and carbon nanotubes composite beads: adsorption and reuse studies using tartrazine yellow dye. 2022, 27, A Critical Review on Waste Plastic into Value-Added Hydrocarbons and Fuels. 2023, 145-156 o Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X2211445 Effect of Annealing and Diameter on Tensile Property of Spinnable Carbon Nanotube and Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389 Processing of Composite Electrodes of Carbon Nanotube Fabrics and Inorganic Matrices via Rapid	21		О
Fibers. 2022, 12, 3478 Multi-level micromechanics-based homogenization for the prediction of damage behavior of multiscale fiber-reinforced composites. 2023, 303, 116332 Covalent three-dimensional carbon nanotube and derived B-C-N polymorphs with superhardness and zero PoissonB ratio. 2022, 105563 Carbon Nanotubes: General Introduction. 2022, 1321-1333 Tannery wastes-derived gelatin and carbon nanotubes composite beads: adsorption and reuse studies using tartrazine yellow dye. 2022, 27, A Critical Review on Waste Plastic into Value-Added Hydrocarbons and Fuels. 2023, 145-156 Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X2211465 Effect of Annealing and Diameter on Tensile Property of Spinnable Carbon Nanotube and Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389 Processing of Composite Electrodes of Carbon Nanotube Fabrics and Inorganic Matrices via Rapid	20		O
multiscale fiber-reinforced composites. 2023, 303, 116332 Covalent three-dimensional carbon nanotube and derived B-C-N polymorphs with superhardness and zero PoissonB ratio. 2022, 105563 Carbon Nanotubes: General Introduction. 2022, 1321-1333 Tannery wastes-derived gelatin and carbon nanotubes composite beads: adsorption and reuse studies using tartrazine yellow dye. 2022, 27, A Critical Review on Waste Plastic into Value-Added Hydrocarbons and Fuels. 2023, 145-156 Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X2211465 Effect of Annealing and Diameter on Tensile Property of Spinnable Carbon Nanotube and Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389 Processing of Composite Electrodes of Carbon Nanotube Fabrics and Inorganic Matrices via Rapid	19		О
and zero Poisson Bratio. 2022, 105563 Carbon Nanotubes: General Introduction. 2022, 1321-1333 Tannery wastes-derived gelatin and carbon nanotubes composite beads: adsorption and reuse studies using tartrazine yellow dye. 2022, 27, A Critical Review on Waste Plastic into Value-Added Hydrocarbons and Fuels. 2023, 145-156 Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X2211445 Effect of Annealing and Diameter on Tensile Property of Spinnable Carbon Nanotube and Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389 Processing of Composite Electrodes of Carbon Nanotube Fabrics and Inorganic Matrices via Rapid	18		O
Tannery wastes-derived gelatin and carbon nanotubes composite beads: adsorption and reuse studies using tartrazine yellow dye. 2022, 27, A Critical Review on Waste Plastic into Value-Added Hydrocarbons and Fuels. 2023, 145-156 Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X2211445 Effect of Annealing and Diameter on Tensile Property of Spinnable Carbon Nanotube and Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389 Processing of Composite Electrodes of Carbon Nanotube Fabrics and Inorganic Matrices via Rapid	17		0
studies using tartrazine yellow dye. 2022, 27, A Critical Review on Waste Plastic into Value-Added Hydrocarbons and Fuels. 2023, 145-156 Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X2211445 Effect of Annealing and Diameter on Tensile Property of Spinnable Carbon Nanotube and Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389 Processing of Composite Electrodes of Carbon Nanotube Fabrics and Inorganic Matrices via Rapid	16	Carbon Nanotubes: General Introduction. 2022 , 1321-1333	O
Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X2211445 Effect of Annealing and Diameter on Tensile Property of Spinnable Carbon Nanotube and Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389 Processing of Composite Electrodes of Carbon Nanotube Fabrics and Inorganic Matrices via Rapid	15		0
Effect of Annealing and Diameter on Tensile Property of Spinnable Carbon Nanotube and Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389 Processing of Composite Electrodes of Carbon Nanotube Fabrics and Inorganic Matrices via Rapid	14	A Critical Review on Waste Plastic into Value-Added Hydrocarbons and Fuels. 2023 , 145-156	O
Unidirectional Carbon Nanotube Reinforced Epoxy Composite. 2022, 6, 389 Processing of Composite Electrodes of Carbon Nanotube Fabrics and Inorganic Matrices via Rapid	13	Emerging trends in flame retardancy of rigid polyurethane foam and its composites: A review. 0021955X221	14 4 5
	12		O
	11		1
Development of robust ultra-high-performance carbon nanofiber aggregates (UHPCNFAs) for structural health monitoring. 2023 , 279, 115559	10		O

CITATION REPORT

9	Fabrication and Characterization of Carbon Nanotube/Bismaleimide Nanocomposite Laminates with Ultrahigh Nanofiber Volume Fraction. 2023 ,	O
8	Fabrication and Characterization of Carbon Nanotube/Silicon Carbide Nanocomposite Laminates. 2023 ,	O
7	Prospects and future perspectives of electronic materials for solar energy applications. 2023, 281-296	О
6	Durability and Fractal Analysis of Pore Structure of Crumb Rubber Concrete Modified with Carbon Nanotubes.	O
5	Experimental investigation on thermal properties of carbon nanotubes/zinc silicate composites prepared by powder processing. 2023 , 134, 109772	O
4	Raman spectroscopy used for estimating the effective elastic modulus of carbon nanotubes in aligned multi-walled carbon nanotubes/ epoxy composites under tensile loading. 2023, 167, 107448	O
3	Enhanced reliability with bimodal microstructure and transformation-induced toughening in Al2O3-YSZ based thermal barrier coatings. 2023 , 462, 129488	O
2	Functionalized Carbon Nanotubes. 2023 , 281-317	O
1	Geometrically nonlinear post-buckling of advanced porous nanocomposite lying on elastic foundation in hygrothermal environment.	O