

Maher S Amer

List of Publications by Year in descending order

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36
papers

728
citations

623734

14
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526287

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48
all docs

48
docs citations

48
times ranked

938
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene to graphite; a layer by layer experimental measurements and density function theory calculations of electric conductivity. Philosophical Magazine, 2020, 100, 2491-2502.	1.6	3
2	On the production, mechanical and electro-optic properties of large-area monolayer graphene films using Langmuir-Blodgett technique. Materials Research Express, 2020, 7, 015024.	1.6	2
3	On the evaporation kinetics of [60] fullerene in aromatic organic solvents. Physical Chemistry Chemical Physics, 2018, 20, 11296-11305.	2.8	1
4	Residual stress measurements in melt infiltrated SiC/SiC ceramic matrix composites using Raman spectroscopy. Journal of the European Ceramic Society, 2018, 38, 2784-2791.	5.7	35
5	On the processing of monolayer C60 fullerene films and their mechanical properties. Materials Research Express, 2018, 5, 016407.	1.6	1
6	Effect of Fullerene Nanospheres on Water Evaporation Kinetics and First-Order Thermal Transitions. Journal of Physical Chemistry C, 2012, 116, 8216-8222.	3.1	9
7	Self-Assembled Hierarchical Structure of Fullerene Building Blocks; Single-Walled Carbon Nanotubes and C60. Journal of Physical Chemistry C, 2011, 115, 10483-10488.	3.1	10
8	Effect of linear alcohol molecular size on the self-assembly of fullerene whiskers. Materials Chemistry and Physics, 2011, 130, 90-94.	4.0	5
9	On the compressibility of C60 individual molecules. Chemical Physics Letters, 2009, 476, 232-235.	2.6	14
10	On the evaporation kinetics of C ₆₀ /toluene solutions. Philosophical Magazine Letters, 2009, 89, 615-621.	1.2	9
11	A Brillouin scattering study of C60/toluene mixtures. Chemical Physics Letters, 2008, 457, 329-331.	2.6	15
12	On the development of a confocal Rayleigh-Brillouin microscope. Review of Scientific Instruments, 2007, 78, 016106.	1.3	7
13	Raman spectroscopy and molecular simulation investigations of adsorption on the surface of single-walled carbon nanotubes and nanospheres. Journal of Raman Spectroscopy, 2007, 38, 721-727.	2.5	9
14	Selective adsorption from methanol/water mixtures by C60 fullerene nanospheres. Chemical Physics Letters, 2006, 430, 323-325.	2.6	7
15	Raman mapping of local phases and local stress fields in silicon-silicon carbide composites. Materials Chemistry and Physics, 2006, 98, 410-414.	4.0	15
16	Raman spectroscopy investigations of functionally graded materials and inter-granular mechanics. International Journal of Solids and Structures, 2005, 42, 751-757.	2.7	12
17	Calculations of the Raman spectra of C60 interacting with water molecules. Chemical Physics Letters, 2005, 411, 395-398.	2.6	24
18	Femtosecond versus nanosecond laser machining: comparison of induced stresses and structural changes in silicon wafers. Applied Surface Science, 2005, 242, 162-167.	6.1	132

#	ARTICLE	IF	CITATIONS
19	Vibrational behavior of the $Mn+1AX_n$ phases from first-order Raman scattering ($M=Ti, V, Cr, A=Si, X=C, N$). <i>Physical Review B</i> , 2005, 71, .	3.2	139
20	Local dielectric and strain measurements in $YBa_2Cu_3O_{7-x}$ thin films by evanescent microscopy and Raman spectroscopy. <i>Superconductor Science and Technology</i> , 2005, 18, 1197-1203.	3.5	11
21	Study of the hydrostatic pressure dependence of the Raman spectrum of single-walled carbon nanotubes and nanospheres. <i>Journal of Chemical Physics</i> , 2004, 121, 2752.	3.0	44
22	Exploring two-dimensional soap-foam films using fullerene (C_{60}) nanosensors. <i>Applied Physics Letters</i> , 2003, 82, 2592-2594.	3.3	14
23	Raman Investigation of Fullerene [C_{60}] Under hydrostatic Pressure. <i>Materials Research Society Symposia Proceedings</i> , 2003, 791, 365.	0.1	0
24	Quantifying stresses induced by laser micromachining using micro-Raman spectroscopy. , 2003, , .		0
25	Effect of grain orientation and local strain on the quality of polycrystalline $YBa_2Cu_3O_7$ superconductive films. <i>Philosophical Magazine Letters</i> , 2002, 82, 241-245.	1.2	8
26	Induced stresses and structural changes in silicon wafers as a result of laser micro-machining. <i>Applied Surface Science</i> , 2002, 187, 291-296.	6.1	46
27	Effects of processing parameters on axial stiffness of self-reinforced polyethylene composites. <i>Journal of Applied Polymer Science</i> , 2001, 81, 1136-1141.	2.6	19
28	Local grain orientation and strain in polycrystalline $YBa_2Cu_3O_{7-x}$ superconductor thin films measured by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2001, 89, 8030-8034.	2.5	21
29	Direct observation of intergranular stress fields in polycrystalline materials. <i>Philosophical Magazine Letters</i> , 2000, 80, 543-548.	1.2	2
30	The effect of interphase toughness on fibre/fibre interaction in graphite/epoxy composites: an experimental and modelling study. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 919-928.	2.5	18
31	Non-destructive, in situ measurements of diamond-like-carbon film hardness using Raman and Rayleigh scattering. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 947-950.	2.5	12
32	Micromechanical Behavior of Graphite / Epoxy Composites , Part II: Interfacial Durability. <i>Science and Engineering of Composite Materials</i> , 1998, 7, 115-150.	1.4	9
33	NEW METHODOLOGY FOR DETERMINING IN SITU FIBER, MATRIX AND INTERFACE STRESSES IN DAMAGED MULTIFIBER COMPOSITES. <i>Science and Engineering of Composite Materials</i> , 1998, 7, 151-204.	1.4	25
34	Stress concentration phenomenon in graphite/epoxy composites: Tension/compression effects. <i>Composites Science and Technology</i> , 1997, 57, 1129-1137.	7.8	27
35	Effect of Hydrothermal Exposure on Interfacial Stress Transfer in Graphite/Epoxy Composites loaded in Compression. <i>Advanced Composites Letters</i> , 1996, 5, 096369359600500.	1.3	3
36	Environmental Effects on Interface Behavior in Graphite / Epoxy Single Fiber Composites. <i>Materials Research Society Symposia Proceedings</i> , 1995, 385, 155.	0.1	2