

# Maher S Amer

## List of Publications by Year in descending order

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36  
papers

728  
citations

623734

14  
h-index

526287

27  
g-index

48  
all docs

48  
docs citations

48  
times ranked

938  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | 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       |
| 2  | Femtosecond versus nanosecond laser machining: comparison of induced stresses and structural changes in silicon wafers. <i>Applied Surface Science</i> , 2005, 242, 162-167.                   | 6.1 | 132       |
| 3  | 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        |
| 4  | 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        |
| 5  | Residual stress measurements in melt infiltrated SiC/SiC ceramic matrix composites using Raman spectroscopy. <i>Journal of the European Ceramic Society</i> , 2018, 38, 2784-2791.             | 5.7 | 35        |
| 6  | Stress concentration phenomenon in graphite/epoxy composites: Tension/compression effects. <i>Composites Science and Technology</i> , 1997, 57, 1129-1137.                                     | 7.8 | 27        |
| 7  | 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        |
| 8  | Calculations of the Raman spectra of C60 interacting with water molecules. <i>Chemical Physics Letters</i> , 2005, 411, 395-398.   | 2.6 | 24        |
| 9  | 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        |
| 10 | 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        |
| 11 | 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        |
| 12 | Raman mapping of local phases and local stress fields in silicon-silicon carbide composites. <i>Materials Chemistry and Physics</i> , 2006, 98, 410-414.                                       | 4.0 | 15        |
| 13 | A Brillouin scattering study of C60/toluene mixtures. <i>Chemical Physics Letters</i> , 2008, 457, 329-331.  | 2.6 | 15        |
| 14 | Exploring two-dimensional soap-foam films using fullerene (C60) nanosensors. <i>Applied Physics Letters</i> , 2003, 82, 2592-2594.   | 3.3 | 14        |
| 15 | On the compressibility of C60 individual molecules. <i>Chemical Physics Letters</i> , 2009, 476, 232-235.  | 2.6 | 14        |
| 16 | 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        |
| 17 | Raman spectroscopy investigations of functionally graded materials and inter-granular mechanics. <i>International Journal of Solids and Structures</i> , 2005, 42, 751-757.                    | 2.7 | 12        |
| 18 | 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        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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        |
| 20 | Micromechanical Behavior of Graphite / Epoxy Composites , Part II: Interfacial Durability. Science and Engineering of Composite Materials, 1998, 7, 115-150.   | 1.4 | 9         |
| 21 | 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         |
| 22 | On the evaporation kinetics of C <sub>60</sub> /toluene solutions. Philosophical Magazine Letters, 2009, 89, 615-621.  | 1.2 | 9         |
| 23 | 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         |
| 24 | Effect of grain orientation and local strain on the quality of polycrystalline YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> superconductive films. Philosophical Magazine Letters, 2002, 82, 241-245. | 1.2 | 8         |
| 25 | Selective adsorption from methanol/water mixtures by C60 fullerene nanospheres. Chemical Physics Letters, 2006, 430, 323-325.  | 2.6 | 7         |
| 26 | On the development of a confocal Rayleigh-Brillouin microscope. Review of Scientific Instruments, 2007, 78, 016106.  | 1.3 | 7         |
| 27 | Effect of linear alcohol molecular size on the self-assembly of fullerene whiskers. Materials Chemistry and Physics, 2011, 130, 90-94.   | 4.0 | 5         |
| 28 | Effect of Hydrothermal Exposure on Interfacial Stress Transfer in Graphite/Epoxy Composites loaded in Compression. Advanced Composites Letters, 1996, 5, 096369359600500.                                | 1.3 | 3         |
| 29 | 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         |
| 30 | Environmental Effects on Interface Behavior in Graphite / Epoxy Single Fiber Composites. Materials Research Society Symposia Proceedings, 1995, 385, 155.  | 0.1 | 2         |
| 31 | Direct observation of intergranular stress fields in polycrystalline materials. Philosophical Magazine Letters, 2000, 80, 543-548.   | 1.2 | 2         |
| 32 | 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         |
| 33 | On the evaporation kinetics of [60] fullerene in aromatic organic solvents. Physical Chemistry Chemical Physics, 2018, 20, 11296-11305.  | 2.8 | 1         |
| 34 | On the processing of monolayer C60 fullerene films and their mechanical properties. Materials Research Express, 2018, 5, 016407.   | 1.6 | 1         |
| 35 | Raman Investigation of Fullerene [60] Under hydrostatic Pressure. Materials Research Society Symposia Proceedings, 2003, 791, 365.   | 0.1 | 0         |
| 36 | Quantifying stresses induced by laser micromachining using micro-Raman spectroscopy. , 2003, , .   |     | 0         |