# Miklos Veres

List of Publications by Year
in descending order

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| 122 | 1,349 | 394421 19 | 454955 30 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 124 | 124 | 124 | 1579 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Gold nanoparticle assisted synthesis and characterization of Asâ€“S crystallites: Scanning electron microscopy, X-ray diffraction, energy-dispersive X-ray and Raman spectroscopy combined with DFT calculations. Journal of Alloys and Compounds, 2022, 894, 162467. | 5.5 | 6 |
| 2 | Surface plasmon enhanced light-induced changes in Ge-Se amorphous chalcogenide â€“ gold nanostructures. Journal of Non-Crystalline Solids, 2021, 553, 120491. | 3.1 | 10 |
| 3 | Optimization of the production parameters of substrates for SERS applications. , 2021, , . | | 0 |
| 4 | Investigation of the Thermally Generated Au and Ag Nanoislands for SERS and LSPR Applications. Engineering Proceedings, 2021, 6, . | 0.4 | 0 |
| 5 | Raman spectroscopic study of gamma radiationâ€initiated polymerization of diethylene glycol dimethacrylate in different solvents. Journal of Raman Spectroscopy, 2021, 52, 1735-1743. | 2.5 | 3 |
| 6 | Synthesis of porous silicon based nanoparticles for applications in surface enhanced Raman spectroscopy. Vacuum, 2021, 191, 110335. | 3.5 | 2 |
| 7 | Nanoparticles in analytical laser and plasma spectroscopy â€“ a review of recent developments in methodology and applications. Journal of Analytical Atomic Spectrometry, 2021, 36, 1826-1872. | 3.0 | 20 |
| 8 | An Investigation of Surface-Enhanced Raman Scattering of Different Analytes Adsorbed on Gold Nanoislands. Applied Sciences (Switzerland), 2021, 11, 9838. | 2.5 | 9 |
| 9 | Application of gold nanoparticlesâ€“epoxy surface nanocomposites for controlling hotspot density on a large surface area for SERS applications. Nano Structures Nano Objects, 2021, 28, 100787. | 3.5 | 4 |
| 10 | A generalized exponential relationship between the surface-enhanced Raman scattering (SERS) efficiency of gold/silver nanoisland arrangements and their non-dimensional interparticle distance/particle diameter ratio. Sensors and Actuators A: Physical, 2020, 314, 112225. | 4.1 | 32 |
| 11 | Plasmonic enhancement in gold coated inverse pyramid substrates with entrapped gold nanoparticles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107128. | 2.3 | 5 |
| 12 | Surface plasmon enhanced light-induced changes in Ge Se amorphous chalcogenide â€“ Gold nanostructures. Journal of Non-Crystalline Solids: X, 2020, 6, 100045. | 1.2 | 4 |
| 13 | Reversible laser-assisted structural modification of the surface of As-rich nanolayers for active photonics media. Applied Surface Science, 2020, 518, 146240. | 6.1 | 0 |
| 14 | Structural Nature of Boson Peak and Lowâ€Temperature Heat Excess in As 2 S 3 Glass. Physica Status Solidi (B): Basic Research, 2020, 257, 1900525. | 1.5 | 5 |
| 15 | Origin of the asymmetric zero-phonon line shape of the silicon-vacancy center in nanocrystalline diamond films. Journal of Luminescence, 2019, 215, 116681. | 3.1 | 1 |
| 16 | Preparation and Characterization of Perforated SERS Active Array for Particle Trapping and Sensitive Molecular Analysis. Biosensors, 2019, 9, 93. | 4.7 | 7 |
| 17 | Determination of emitted particle characteristics and upper airway deposition of SymbicortÂ® TurbuhalerÂ® dry powder inhaler. Journal of Drug Delivery Science and Technology, 2019, 54, 101229. | 3.0 | 3 |
| 18 | Swift heavy ion irradiated planar waveguides in a rare earth doped tungsten Tellurite glass and a tungstate crystal. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |

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|---|---|---|---|
| 19 | Modeling and first-principles calculation of low-frequency quasi-localized vibrations of soft and rigid Asâ€“S nanoclusters. Applied Nanoscience (Switzerland), 2019, 9, 975-986. | 3.1 | 5 |
| 20 | Reversible structural changes of in situ prepared As40Se60 nanolayers studied by XPS spectroscopy. Applied Nanoscience (Switzerland), 2019, 9, 917-924. | 3.1 | 4 |
| 21 | Peculiarities of interaction of gold nanoparticles with photoinitiators in polymer nanocomposites for holographic recording. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 359, 111-120. | 3.9 | 8 |
| 22 | Investigation of the performance of thermally generated gold nanoislands for LSPR and SERS applications. Sensors and Actuators B: Chemical, 2018, 255, 433-439. | 7.8 | 59 |
| 23 | Hierarchically Combined Periodic SERS Active 3D Micro- and Nanostructures for High Sensitive Molecular Analysis. Proceedings (mdpi), 2018, 2, . | 0.2 | 1 |
| 24 | In vivo study of cell division with stimulated Raman scattering. , 2018, , . | | 0 |
| 25 | PDMS-Au/Ag Nanocomposite Films as Highly Sensitive SERS Substrates. Proceedings (mdpi), 2018, 2, 1060. | 0.2 | 6 |
| 26 | Super-bandgap light stimulated reversible transformation and laser-driven mass transport at the surface of As2S3 chalcogenide nanolayers studied in situ. Journal of Chemical Physics, 2018, 149, 214702. | 3.0 | 4 |
| 27 | Enhancement of the light emission of color center containing nanodiamond structures. , 2018, , . | | 0 |
| 28 | Characterisation of biological smoke generated by short pulse lasers. , 2018, , . | | 0 |
| 29 | Experimental Study of Spectral Parameters of Silicon-Vacancy Centers in MWCVD Nanodiamond Films Important for Sensing Applications. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 215-220. | 0.3 | 0 |
| 30 | Preparation and Characterization of SERS Substrates of Different Morphology. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 63-68. | 0.3 | 0 |
| 31 | Surface patterning in Ge Se amorphous layers. Journal of Non-Crystalline Solids, 2017, 459, 51-56. | 3.1 | 6 |
| 32 | Coherent Light Photo-modification, Mass Transport Effect, and Surface Relief Formation in AsxS100-x Nanolayers: Absorption Edge, XPS, and Raman Spectroscopy Combined with Profilometry Study. Nanoscale Research Letters, 2017, 12, 149. | 5.7 | 11 |
| 33 | Peculiarities of photonic crystal recording in functional polymer nanocomposites by multibeam interference holography. Polymer, 2017, 112, 136-143. | 3.8 | 9 |
| 34 | Determination of the deposited amount of inhalation drugs in realistic human airways by Raman and infrared spectroscopy. Measurement: Journal of the International Measurement Confederation, 2017, 104, 237-242. | 5.0 | 3 |
| 35 | Deliberation between PM 1 and PM 2.5 as air quality indicators based on comprehensive characterization of urban aerosols in Bangkok, Thailand. Particuology, 2017, 35, 1-9. | 3.6 | 11 |
| 36 | Analyzing Raman â€“ Infrared spectral correlation in the recently found meteorite CsÃ¡talja. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 173, 637-646. | 3.9 | 12 |

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| 37 | Investigation of PDMS-gold nanoparticle composite films for plasmonic sensors. , 2017, , . | | 6 |
| 38 | SERS Active Periodic 3D Structure for Trapping and High Sensitive Molecular Analysis of Particles or Cells. Proceedings (mdpi), 2017, 1, . | 0.2 | 1 |
| 39 | Cerium and europium nanospecies in quartz glass: synthesis and spectral study. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 193-197. | 0.9 | 5 |
| 40 | Comparative Analysis of SERS Substrates of Different Morphology. Procedia Engineering, 2016, 168, 371-374. | 1.2 | 11 |
| 41 | Investigation of the Performance of Thermally Generated Au/Ag Nanoislands for SERS and LSPR Applications. Procedia Engineering, 2016, 168, 1152-1155. | 1.2 | 2 |
| 42 | In vitro and in silico (IVIS) flow characterization in an idealized human airway geometry using laser Doppler anemometry and computational fluid dynamics techniques. Measurement: Journal of the International Measurement Confederation, 2016, 90, 144-150. | 5.0 | 19 |
| 43 | Investigation of atmospheric corrosion by photon energy dependent luminescence and Raman spectroscopy in aged and freshly fractured g-,c-As2S3 with photosensitive realgar inclusions. Journal of Non-Crystalline Solids, 2016, 453, 23-27. | 3.1 | 9 |
| 44 | Spectral properties of the zero-phonon line from ensemble of siliconâ€“vacancy center in nanodiamond. Optical and Quantum Electronics, 2016, 48, 1. | 3.3 | 8 |
| 45 | The use of ion beam techniques for the fabrication of integrated optical elements. , 2016, , . | | 1 |
| 46 | TiC crystallite formation and the role of interfacial energies on the composition during the deposition process of TiC/a:C thin films. Surface and Coatings Technology, 2016, 302, 410-419. | 4.8 | 15 |
| 47 | Real-Time Determination of Absorptivity of Ambient Particles in Urban Aerosol in Budapest, Hungary. Aerosol and Air Quality Research, 2016, 16, 1-10. | 2.1 | 1 |
| 48 | In situ investigations of laser and thermally modified As2S3 nanolayers: Synchrotron radiation photoelectron spectroscopy and density functional theory calculations. Journal of Applied Physics, 2015, 118, . | 2.5 | 9 |
| 49 | Creation of Blue Light Emitting Color Centers in Nanosized Diamond for Different Applications. NATO Science for Peace and Security Series A: Chemistry and Biology, 2015, , 93-101. | 0.5 | 1 |
| 50 | Effective implantation of light emitting centers by plasma immersion ion implantation and focused ion beam methods into nanosized diamond. Applied Surface Science, 2015, 328, 577-582. | 6.1 | 12 |
| 51 | Influence of gold nanoparticles on the photo-polymerization processes and structure in acrylate nanocomposites. European Polymer Journal, 2015, 64, 189-195. | 5.4 | 13 |
| 52 | Local surface structure and structural properties of Asâ€“Se nanolayers studied by synchrotron radiation photoelectron spectroscopy and DFT calculations. Journal of Non-Crystalline Solids, 2015, 410, 180-185. | 3.1 | 8 |
| 53 | Optical recording of surface relief on amorphous selenium. Journal of Non-Crystalline Solids, 2015, 408, 57-61. | 3.1 | 8 |
| 54 | Zero-phonon line characteristics of SiV center emission in microcrystalline diamond probed with intensive optical excitation. Journal of Luminescence, 2015, 158, 260-264. | 3.1 | 7 |

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| 55 | Dual Effects of Photo-Darkening and Photo-Bleaching in Ge-Se Films. Journal of Materials Science and Engineering A, 2015, 5, . | 0.1 | 1 |
| 56 | Creation of deep blue light emitting nitrogen-vacancy center in nanosized diamond. Applied Physics Letters, 2014, 104, 093101. | 3.3 | 11 |
| 57 | Small-angle neutron scattering investigation of polyurethane aged in dry and wet air. EXPRESS Polymer Letters, 2014, 8, 345-351. | 2.1 | 11 |
| 58 | Influence of microwave plasma parameters on light emission from SiV color centers in nanocrystalline diamond films. Open Chemistry, 2014, 13, . | 1.9 | 3 |
| 59 | Ion beam irradiated optical channel waveguides. , 2014, , . | | 0 |
| 60 | Examination of nanocrystalline TiC/amorphous C deposited thin films. Journal of the European Ceramic Society, 2014, 34, 3421-3425. | 5.7 | 11 |
| 61 | Stimulated structural changes of Se in nanolayered composite films. Materials Chemistry and Physics, 2014, 143, 889-893. | 4.0 | 6 |
| 62 | Spectroscopic evidence of coexistence of clusters based on low (α) and high temperature (β) GeS<inf>2</inf> crystalline phases in glassy germanium disulfide matrix. , 2014, , . | | 0 |
| 63 | Coordination disordering in near-stoichiometric arsenic sulfide glass. Journal of Non-Crystalline Solids, 2014, 402, 236-243. | 3.1 | 20 |
| 64 | Fabrication of optical channel waveguides in crystals and glasses using macro- and micro ion beams. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 157-162. | 1.4 | 4 |
| 65 | Structural Changes in Doped Ge2Sb2Te5 Thin Films Studied by Raman Spectroscopy. Physics Procedia, 2013, 44, 82-90. | 1.2 | 39 |
| 66 | Grafting of manganese phthalocyanine on nanocrystalline diamond films. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2048-2054. | 1.8 | 12 |
| 67 | Simultaneous Photoluminescence and SERS Observation of Nanodiamond at Laser Deposition on Noble Metals. Plasmonics, 2013, 8, 325-333. | 3.4 | 4 |
| 68 | Structure of e-beam sculptured poly(N-vinylpyrrolidone) networks across different length-scales, from macro to nano. Polymer, 2013, 54, 54-64. | 3.8 | 29 |
| 69 | Preparation of Small Silicon Carbide Quantum Dots by Wet Chemical Etching. Materials Research Society Symposia Proceedings, 2012, 1468, 25. | 0.1 | 0 |
| 70 | A Combined Petrographic and Micro-Raman Study of Meteoritic Microdiamond in ALH-77257 Ureilite and ALH-78113 Aubrite. Spectroscopy Letters, 2012, 45, 151-155. | 1.0 | 3 |
| 71 | Radiation induced preparation of new multifunctional nanobiowebs. Radiation Physics and Chemistry, 2012, 81, 1407-1410. | 2.8 | 3 |
| 72 | Low temperature growth of nanocrystalline and ultrananocrystalline diamond films: A comparison. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1664-1674. | 1.8 | 24 |

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| 73 | Two-wavelength Raman study of poly(ethylene terephthalate) surfaces modified by helium plasma-based ion implantation. Applied Surface Science, 2012, 263, 423-429. | 6.1 | 5 |
| 74 | Shock and thermal annealing history of the ALH 77005 Martian meteorite: a micro-Raman spectroscopical investigation. Central European Geology, 2012, 55, 33-48. | 0.4 | 5 |
| 75 | Investigation of the initial growth of ultrananocrystalline diamond films by multiwavelength Raman spectroscopy. Diamond and Related Materials, 2011, 20, 1076-1080. | 3.9 | 14 |
| 76 | Structureâ€“property and compositionâ€“property relationships for poly(ethylene terephthalate) surfaces modified by helium plasma-based ion implantation. Applied Surface Science, 2011, 257, 10815-10820. | 6.1 | 3 |
| 77 | Characterization of luminescent silicon carbide nanocrystals prepared by reactive bonding and subsequent wet chemical etching. Applied Physics Letters, 2011, 99, . | 3.3 | 33 |
| 78 | Comparison of structural transforma- tions in bulk and as-evaporated optical media under action of polychromatic or photon-energy dependent monochromatic illumination. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2705-2708. | 0.8 | 28 |
| 79 | Nonâ€linear optical properties and structure of wide band gap nonâ€crystalline semiconductors. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2696-2700. | 0.8 | 12 |
| 80 | Photoinduced bond breaking in a-Se: Raman spectroscopic study. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2789-2791. | 0.8 | 4 |
| 81 | Formation of amorphous carbon on the surface of poly(ethylene terephthalate) by helium plasma based ion implantation. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1855-1858. | 1.4 | 6 |
| 82 | Ellipsometric study of nanostructured carbon films deposited by pulsed laser deposition. Thin Solid Films, 2011, 519, 2989-2993. | 1.8 | 3 |
| 83 | Catalytic activity of gold on nanocrystalline diamond support. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, NA-NA. | 0.8 | 8 |
| 84 | Boson peak in low-frequency Raman spectra of AsxS100-xglasses: nanocluster contribution. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, NA-NA. | 0.8 | 8 |
| 85 | Ab initio calculations and the effect of atomic substitution in the Raman spectra of As(Sb,Bi)<sub>2</sub>S<sub>3</sub> films. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 893-896. | 0.8 | 15 |
| 86 | On photoinduced volume change in amorphous selenium: Quantum chemical calculation and Raman spectroscopy. Journal of Applied Physics, 2010, 107, . | 2.5 | 36 |
| 87 | Sp2carbon defects in nanocrystalline diamond detected by Raman spectroscopy. IOP Conference Series: Materials Science and Engineering, 2010, 15, 012023. | 0.6 | 7 |
| 88 | Investigation of the combined effect of argon addition and substrate bias on the growth of ultrananocrystalline diamond layers. Diamond and Related Materials, 2009, 18, 1459-1465. | 3.9 | 7 |
| 89 | Raman Spectroscopy Of Uncd Grain Boundaries. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 115-121. | 0.3 | 3 |
| 90 | Modified Ï€-states in ion-irradiated carbon. Applied Surface Science, 2008, 254, 2790-2796. | 6.1 | 6 |

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| 91 | Raman spectroscopic study of magnetron sputtered carbonâ€“nickel and carbon nitrideâ€“nickel composite films: The effect of nickel on the atomic structure of the C/CNx matrix. Thin Solid Films, 2008, 516, 7910-7915. | 1.8 | 30 |
| 92 | Spatially resolved near-infrared excited Raman spectroscopy of nanocrystalline diamond films. Diamond and Related Materials, 2008, 17, 515-519. | 3.9 | 4 |
| 93 | New aspects of Raman scattering in carbon-based amorphous materials. Diamond and Related Materials, 2008, 17, 1692-1696. | 3.9 | 42 |
| 94 | Grain boundary fine structure of ultrananocrystalline diamond thin films measured by Raman scattering. Applied Physics Letters, 2007, 91, . | 3.3 | 35 |
| 95 | Supercapacitor Electrodes Made from Mixture of Amorphous Carbon Nano-Particles and Carbon Black. Materials Science Forum, 2007, 537-538, 263-268. | 0.3 | 1 |
| 96 | Raman Analysis of Diamond-Like Carbon Films Deposited onto Corrosion Resistant Alloys Used for Coronary Stent Fabrication. Materials Science Forum, 2007, 537-538, 277-284. | 0.3 | 4 |
| 97 | Spectroscopic studies on self-supporting multi-wall carbon nanotube based composite films for sensor applications. Journal of Molecular Structure, 2007, 834-836, 471-476. | 3.6 | 16 |
| 98 | Incorporation of Si in a-C:Si:H films monitored by infrared excited Raman scattering. Diamond and Related Materials, 2006, 15, 932-935. | 3.9 | 3 |
| 99 | Influence of layer thickness on the photoluminescence and Raman scattering of a-C:H prepared from benzene. Diamond and Related Materials, 2006, 15, 967-971. | 3.9 | 19 |
| 100 | Fabryâ€“Perot resonance enhancementâ€“inhibition of spontaneous light emission from a-C:H thin films. Journal of Non-Crystalline Solids, 2006, 352, 1336-1339. | 3.1 | 1 |
| 101 | Size of spatial confinement at luminescence centers determined from resonant excitation bands of a-C:H photoluminescence. Journal of Non-Crystalline Solids, 2006, 352, 1340-1343. | 3.1 | 19 |
| 102 | New evidence of light-induced structural changes detected in Asâ€“S glasses by photon energy dependent Raman spectroscopy. Journal of Non-Crystalline Solids, 2006, 352, 1607-1611. | 3.1 | 20 |
| 103 | Thickness dependence of the structure of a-C:H thin films prepared by rf-CVD evidenced by Raman spectroscopy. Journal of Non-Crystalline Solids, 2006, 352, 1348-1351. | 3.1 | 10 |
| 104 | Photoluminescence of ultra-high molecular weight polyethylene modified by fast atom bombardment. Thin Solid Films, 2006, 497, 279-283. | 1.8 | 32 |
| 105 | Reactive pulsed laser deposition of hydrogenated carbon thin films: The effect of hydrogen pressure. Journal of Applied Physics, 2006, 100, 043501. | 2.5 | 17 |
| 106 | Influence of amorphous carbon nano-clusters on the capacity of carbon black electrodes. Thin Solid Films, 2005, 482, 207-210. | 1.8 | 17 |
| 107 | Raman scattering of ultra-high molecular weight polyethylene treated by plasma-based ion implantation. Thin Solid Films, 2005, 482, 211-215. | 1.8 | 23 |
| 108 | Simultaneous preparation of amorphous solid carbon films, and their cluster building blocks. Journal of Non-Crystalline Solids, 2005, 351, 981-986. | 3.1 | 8 |

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| 109 | Two bands structure of the photoluminescence excitation spectrum of the composite bands in a-C:H luminescence. Diamond and Related Materials, 2005, 14, 1041-1046. | 3.9 | 6 |
| 110 | Characterisation of a-C:H and oxygen-containing Si:C:H films by Raman spectroscopy and XPS. Diamond and Related Materials, 2005, 14, 1051-1056. | 3.9 | 60 |
| 111 | Structural and optical changes in As2S3 thin films induced by light ion irradiation. Physica Status Solidi A, 2004, 201, 3193-3199. | 1.7 | 16 |
| 112 | Surface enhanced Raman scattering (SERS) investigation of amorphous carbon. Diamond and Related Materials, 2004, 13, 1412-1415. | 3.9 | 59 |
| 113 | Specific statistical features of surface enhanced Raman scattering (SERS) spectra of graphite. Journal of Non-Crystalline Solids, 2004, 338-340, 496-498. | 3.1 | 1 |
| 114 | Carbon nano-particles prepared by ion-clustering in plasma. Vacuum, 2003, 71, 171-176. | 3.5 | 9 |
| 115 | Electronic structure of pulsed laser deposited carbon thin films monitored by photoluminescence. Diamond and Related Materials, 2003, 12, 911-916. | 3.9 | 1 |
| 116 | Composite character of the photoluminescence in hydrogenated amorphous carbon films. Journal of Non-Crystalline Solids, 2002, 299-302, 852-857. | 3.1 | 8 |
| 117 | Optical strength in UV region of amorphous carbon. Diamond and Related Materials, 2002, 11, 1106-1109. | 3.9 | 6 |
| 118 | IR study of the formation process of polymeric hydrogenated amorphous carbon film. Diamond and Related Materials, 2002, 11, 1110-1114. | 3.9 | 64 |
| 119 | Multi-band structure of amorphous carbon luminescence. Diamond and Related Materials, 2002, 11, 1115-1118. | 3.9 | 14 |
| 120 | Ultraviolet photoluminescence and its relation to atomic bonding properties of hydrogenated amorphous carbon. Diamond and Related Materials, 2002, 11, 53-58. | 3.9 | 25 |
| 121 | Raman Spectroscopy of CVD Carbon Thin Films Excited by Near-Infrared Light. , 0, , 423-445. | | 4 |
| 122 | Optical properties of nano- and ultrananocrystalline diamond thin layers in the UV and visible spectral range. IOP Conference Series: Materials Science and Engineering, 0, 426, 012049. | 0.6 | 4 |