

Miklos Veres

List of Publications by Year in descending order

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122
papers

1,349
citations

394421

19
h-index

454955

30
g-index

124
all docs

124
docs citations

124
times ranked

1579
citing authors

#	ARTICLE	IF	CITATIONS
1	IR study of the formation process of polymeric hydrogenated amorphous carbon film. <i>Diamond and Related Materials</i> , 2002, 11, 1110-1114.	3.9	64
2	Characterisation of a-C:H and oxygen-containing Si:C:H films by Raman spectroscopy and XPS. <i>Diamond and Related Materials</i> , 2005, 14, 1051-1056.	3.9	60
3	Surface enhanced Raman scattering (SERS) investigation of amorphous carbon. <i>Diamond and Related Materials</i> , 2004, 13, 1412-1415.	3.9	59
4	Investigation of the performance of thermally generated gold nanoislands for LSPR and SERS applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 433-439.	7.8	59
5	New aspects of Raman scattering in carbon-based amorphous materials. <i>Diamond and Related Materials</i> , 2008, 17, 1692-1696.	3.9	42
6	Structural Changes in Doped Ge ₂ Sb ₂ Te ₅ Thin Films Studied by Raman Spectroscopy. <i>Physics Procedia</i> , 2013, 44, 82-90.	1.2	39
7	On photoinduced volume change in amorphous selenium: Quantum chemical calculation and Raman spectroscopy. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	36
8	Grain boundary fine structure of ultrananocrystalline diamond thin films measured by Raman scattering. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	35
9	Characterization of luminescent silicon carbide nanocrystals prepared by reactive bonding and subsequent wet chemical etching. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	33
10	Photoluminescence of ultra-high molecular weight polyethylene modified by fast atom bombardment. <i>Thin Solid Films</i> , 2006, 497, 279-283.	1.8	32
11	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. <i>Sensors and Actuators A: Physical</i> , 2020, 314, 112225.	4.1	32
12	Raman spectroscopic study of magnetron sputtered carbon-nickel and carbon nitride-nickel composite films: The effect of nickel on the atomic structure of the C/C _{Nx} matrix. <i>Thin Solid Films</i> , 2008, 516, 7910-7915.	1.8	30
13	Structure of e-beam sculptured poly(N-vinylpyrrolidone) networks across different length-scales, from macro to nano. <i>Polymer</i> , 2013, 54, 54-64.	3.8	29
14	Comparison of structural transformations in bulk and as-evaporated optical media under action of polychromatic or photon-energy dependent monochromatic illumination. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 2705-2708.	0.8	28
15	Ultraviolet photoluminescence and its relation to atomic bonding properties of hydrogenated amorphous carbon. <i>Diamond and Related Materials</i> , 2002, 11, 53-58.	3.9	25
16	Low temperature growth of nanocrystalline and ultrananocrystalline diamond films: A comparison. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 1664-1674.	1.8	24
17	Raman scattering of ultra-high molecular weight polyethylene treated by plasma-based ion implantation. <i>Thin Solid Films</i> , 2005, 482, 211-215.	1.8	23
18	New evidence of light-induced structural changes detected in As ₂ S ₃ glasses by photon energy dependent Raman spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1607-1611.	3.1	20

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19	Coordination disordering in near-stoichiometric arsenic sulfide glass. <i>Journal of Non-Crystalline Solids</i> , 2014, 402, 236-243.	3.1	20
20	Nanoparticles in analytical laser and plasma spectroscopy – a review of recent developments in methodology and applications. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1826-1872.	3.0	20
21	Influence of layer thickness on the photoluminescence and Raman scattering of a-C:H prepared from benzene. <i>Diamond and Related Materials</i> , 2006, 15, 967-971.	3.9	19
22	Size of spatial confinement at luminescence centers determined from resonant excitation bands of a-C:H photoluminescence. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1340-1343.	3.1	19
23	In vitro and in silico (IVIS) flow characterization in an idealized human airway geometry using laser Doppler anemometry and computational fluid dynamics techniques. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 90, 144-150.	5.0	19
24	Influence of amorphous carbon nano-clusters on the capacity of carbon black electrodes. <i>Thin Solid Films</i> , 2005, 482, 207-210.	1.8	17
25	Reactive pulsed laser deposition of hydrogenated carbon thin films: The effect of hydrogen pressure. <i>Journal of Applied Physics</i> , 2006, 100, 043501.	2.5	17
26	Structural and optical changes in As ₂ S ₃ thin films induced by light ion irradiation. <i>Physica Status Solidi A</i> , 2004, 201, 3193-3199.	1.7	16
27	Spectroscopic studies on self-supporting multi-wall carbon nanotube based composite films for sensor applications. <i>Journal of Molecular Structure</i> , 2007, 834-836, 471-476.	3.6	16
28	Ab initio calculations and the effect of atomic substitution in the Raman spectra of As(Sb,Bi) ₂ S ₃ films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 893-896.	0.8	15
29	TiC crystallite formation and the role of interfacial energies on the composition during the deposition process of TiC/a:C thin films. <i>Surface and Coatings Technology</i> , 2016, 302, 410-419.	4.8	15
30	Multi-band structure of amorphous carbon luminescence. <i>Diamond and Related Materials</i> , 2002, 11, 1115-1118.	3.9	14
31	Investigation of the initial growth of ultrananocrystalline diamond films by multiwavelength Raman spectroscopy. <i>Diamond and Related Materials</i> , 2011, 20, 1076-1080.	3.9	14
32	Influence of gold nanoparticles on the photo-polymerization processes and structure in acrylate nanocomposites. <i>European Polymer Journal</i> , 2015, 64, 189-195.	5.4	13
33	Non-linear optical properties and structure of wide band gap non-crystalline semiconductors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 2696-2700.	0.8	12
34	Grafting of manganese phthalocyanine on nanocrystalline diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2048-2054.	1.8	12
35	Effective implantation of light emitting centers by plasma immersion ion implantation and focused ion beam methods into nanosized diamond. <i>Applied Surface Science</i> , 2015, 328, 577-582.	6.1	12
36	Analyzing Raman – Infrared spectral correlation in the recently found meteorite CsÁjtalja. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 173, 637-646.	3.9	12

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37	Creation of deep blue light emitting nitrogen-vacancy center in nanosized diamond. Applied Physics Letters, 2014, 104, 093101.	3.3	11
38	Small-angle neutron scattering investigation of polyurethane aged in dry and wet air. EXPRESS Polymer Letters, 2014, 8, 345-351.	2.1	11
39	Examination of nanocrystalline TiC/amorphous C deposited thin films. Journal of the European Ceramic Society, 2014, 34, 3421-3425.	5.7	11
40	Comparative Analysis of SERS Substrates of Different Morphology. Procedia Engineering, 2016, 168, 371-374.	1.2	11
41	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
42	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
43	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
44	Surface plasmon enhanced light-induced changes in Ge-Se amorphous chalcogenide “gold nanostructures. Journal of Non-Crystalline Solids, 2021, 553, 120491.	3.1	10
45	Carbon nano-particles prepared by ion-clustering in plasma. Vacuum, 2003, 71, 171-176.	3.5	9
46	In situ investigations of laser and thermally modified As ₂ S ₃ nanolayers: Synchrotron radiation photoelectron spectroscopy and density functional theory calculations. Journal of Applied Physics, 2015, 118, .	2.5	9
47	Investigation of atmospheric corrosion by photon energy dependent luminescence and Raman spectroscopy in aged and freshly fractured g,c-As ₂ S ₃ with photosensitive realgar inclusions. Journal of Non-Crystalline Solids, 2016, 453, 23-27.	3.1	9
48	Peculiarities of photonic crystal recording in functional polymer nanocomposites by multibeam interference holography. Polymer, 2017, 112, 136-143.	3.8	9
49	An Investigation of Surface-Enhanced Raman Scattering of Different Analytes Adsorbed on Gold Nanoislands. Applied Sciences (Switzerland), 2021, 11, 9838.	2.5	9
50	Composite character of the photoluminescence in hydrogenated amorphous carbon films. Journal of Non-Crystalline Solids, 2002, 299-302, 852-857.	3.1	8
51	Simultaneous preparation of amorphous solid carbon films, and their cluster building blocks. Journal of Non-Crystalline Solids, 2005, 351, 981-986.	3.1	8
52	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
53	Boson peak in low-frequency Raman spectra of As _x S _{100-x} glasses: nanocluster contribution. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, NA-NA.	0.8	8
54	Local surface structure and structural properties of As _x Se nanolayers studied by synchrotron radiation photoelectron spectroscopy and DFT calculations. Journal of Non-Crystalline Solids, 2015, 410, 180-185.	3.1	8

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55	Optical recording of surface relief on amorphous selenium. <i>Journal of Non-Crystalline Solids</i> , 2015, 408, 57-61.	3.1	8
56	Spectral properties of the zero-phonon line from ensemble of silicon-vacancy center in nanodiamond. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	8
57	Peculiarities of interaction of gold nanoparticles with photoinitiators in polymer nanocomposites for holographic recording. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 359, 111-120.	3.9	8
58	Investigation of the combined effect of argon addition and substrate bias on the growth of ultrananocrystalline diamond layers. <i>Diamond and Related Materials</i> , 2009, 18, 1459-1465.	3.9	7
59	Sp ² carbon defects in nanocrystalline diamond detected by Raman spectroscopy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 15, 012023.	0.6	7
60	Zero-phonon line characteristics of SiV center emission in microcrystalline diamond probed with intensive optical excitation. <i>Journal of Luminescence</i> , 2015, 158, 260-264.	3.1	7
61	Preparation and Characterization of Perforated SERS Active Array for Particle Trapping and Sensitive Molecular Analysis. <i>Biosensors</i> , 2019, 9, 93.	4.7	7
62	Optical strength in UV region of amorphous carbon. <i>Diamond and Related Materials</i> , 2002, 11, 1106-1109.	3.9	6
63	Two bands structure of the photoluminescence excitation spectrum of the composite bands in a-C:H luminescence. <i>Diamond and Related Materials</i> , 2005, 14, 1041-1046.	3.9	6
64	Modified π^* -states in ion-irradiated carbon. <i>Applied Surface Science</i> , 2008, 254, 2790-2796.	6.1	6
65	Formation of amorphous carbon on the surface of poly(ethylene terephthalate) by helium plasma based ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 1855-1858.	1.4	6
66	Stimulated structural changes of Se in nanolayered composite films. <i>Materials Chemistry and Physics</i> , 2014, 143, 889-893.	4.0	6
67	Surface patterning in Ge Se amorphous layers. <i>Journal of Non-Crystalline Solids</i> , 2017, 459, 51-56.	3.1	6
68	Investigation of PDMS-gold nanoparticle composite films for plasmonic sensors. , 2017, , .		6
69	PDMS-Au/Ag Nanocomposite Films as Highly Sensitive SERS Substrates. <i>Proceedings (mdpi)</i> , 2018, 2, 1060.	0.2	6
70	Gold nanoparticle assisted synthesis and characterization of As ² S ₃ crystallites: Scanning electron microscopy, X-ray diffraction, energy-dispersive X-ray and Raman spectroscopy combined with DFT calculations. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162467.	5.5	6
71	Two-wavelength Raman study of poly(ethylene terephthalate) surfaces modified by helium plasma-based ion implantation. <i>Applied Surface Science</i> , 2012, 263, 423-429.	6.1	5
72	Shock and thermal annealing history of the ALH 77005 Martian meteorite: a micro-Raman spectroscopical investigation. <i>Central European Geology</i> , 2012, 55, 33-48.	0.4	5

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73	Cerium and europium nanospecies in quartz glass: synthesis and spectral study. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016, 47, 193-197.	0.9	5
74	Modeling and first-principles calculation of low-frequency quasi-localized vibrations of soft and rigid As ₂ S ₃ nanoclusters. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 975-986.	3.1	5
75	Plasmonic enhancement in gold coated inverse pyramid substrates with entrapped gold nanoparticles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107128.	2.3	5
76	Structural Nature of Boson Peak and Low-Temperature Heat Excess in As ₂ S ₃ Glass. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900525.	1.5	5
77	Raman Spectroscopy of CVD Carbon Thin Films Excited by Near-Infrared Light. , 0, , 423-445.		4
78	Raman Analysis of Diamond-Like Carbon Films Deposited onto Corrosion Resistant Alloys Used for Coronary Stent Fabrication. <i>Materials Science Forum</i> , 2007, 537-538, 277-284.	0.3	4
79	Spatially resolved near-infrared excited Raman spectroscopy of nanocrystalline diamond films. <i>Diamond and Related Materials</i> , 2008, 17, 515-519.	3.9	4
80	Photoinduced bond breaking in a-Se: Raman spectroscopic study. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 2789-2791.	0.8	4
81	Simultaneous Photoluminescence and SERS Observation of Nanodiamond at Laser Deposition on Noble Metals. <i>Plasmonics</i> , 2013, 8, 325-333.	3.4	4
82	Fabrication of optical channel waveguides in crystals and glasses using macro- and micro ion beams. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 331, 157-162.	1.4	4
83	Optical properties of nano- and ultrananocrystalline diamond thin layers in the UV and visible spectral range. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 426, 012049.	0.6	4
84	Super-bandgap light stimulated reversible transformation and laser-driven mass transport at the surface of As ₂ S ₃ chalcogenide nanolayers studied <i>in situ</i> . <i>Journal of Chemical Physics</i> , 2018, 149, 214702.	3.0	4
85	Reversible structural changes of <i>in situ</i> prepared As ₄₀ Se ₆₀ nanolayers studied by XPS spectroscopy. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 917-924.	3.1	4
86	Surface plasmon enhanced light-induced changes in Ge Se amorphous chalcogenide “ Gold nanostructures. <i>Journal of Non-Crystalline Solids: X</i> , 2020, 6, 100045.	1.2	4
87	Application of gold nanoparticles“epoxy surface nanocomposites for controlling hotspot density on a large surface area for SERS applications. <i>Nano Structures Nano Objects</i> , 2021, 28, 100787.	3.5	4
88	Incorporation of Si in a-C:Si:H films monitored by infrared excited Raman scattering. <i>Diamond and Related Materials</i> , 2006, 15, 932-935.	3.9	3
89	Structure“property and composition“property relationships for poly(ethylene terephthalate) surfaces modified by helium plasma-based ion implantation. <i>Applied Surface Science</i> , 2011, 257, 10815-10820.	6.1	3
90	Ellipsometric study of nanostructured carbon films deposited by pulsed laser deposition. <i>Thin Solid Films</i> , 2011, 519, 2989-2993.	1.8	3

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91	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
92	Radiation induced preparation of new multifunctional nanobiowebs. Radiation Physics and Chemistry, 2012, 81, 1407-1410.	2.8	3
93	Influence of microwave plasma parameters on light emission from SiV color centers in nanocrystalline diamond films. Open Chemistry, 2014, 13, .	1.9	3
94	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
95	Determination of emitted particle characteristics and upper airway deposition of Symbicort® Turbuhaler® dry powder inhaler. Journal of Drug Delivery Science and Technology, 2019, 54, 101229.	3.0	3
96	Raman spectroscopic study of gamma radiation-initiated polymerization of diethylene glycol dimethacrylate in different solvents. Journal of Raman Spectroscopy, 2021, 52, 1735-1743.	2.5	3
97	Raman Spectroscopy Of Unccd Grain Boundaries. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 115-121.	0.3	3
98	Investigation of the Performance of Thermally Generated Au/Ag Nanoislands for SERS and LSPR Applications. Procedia Engineering, 2016, 168, 1152-1155.	1.2	2
99	Synthesis of porous silicon based nanoparticles for applications in surface enhanced Raman spectroscopy. Vacuum, 2021, 191, 110335.	3.5	2
100	Electronic structure of pulsed laser deposited carbon thin films monitored by photoluminescence. Diamond and Related Materials, 2003, 12, 911-916.	3.9	1
101	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
102	Fabry-Perot resonance enhancement-inhibition of spontaneous light emission from a-C:H thin films. Journal of Non-Crystalline Solids, 2006, 352, 1336-1339.	3.1	1
103	Supercapacitor Electrodes Made from Mixture of Amorphous Carbon Nano-Particles and Carbon Black. Materials Science Forum, 2007, 537-538, 263-268.	0.3	1
104	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
105	The use of ion beam techniques for the fabrication of integrated optical elements. , 2016, , .		1
106	SERS Active Periodic 3D Structure for Trapping and High Sensitive Molecular Analysis of Particles or Cells. Proceedings (mdpi), 2017, 1, .	0.2	1
107	Hierarchically Combined Periodic SERS Active 3D Micro- and Nanostructures for High Sensitive Molecular Analysis. Proceedings (mdpi), 2018, 2, .	0.2	1
108	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

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109	Dual Effects of Photo-Darkening and Photo-Bleaching in Ge-Se Films. Journal of Materials Science and Engineering A, 2015, 5, .	0.1	1
110	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
111	Preparation of Small Silicon Carbide Quantum Dots by Wet Chemical Etching. Materials Research Society Symposia Proceedings, 2012, 1468, 25.	0.1	0
112	Ion beam irradiated optical channel waveguides. , 2014, , .		0
113	Spectroscopic evidence of coexistence of clusters based on low (α) and high temperature (β) GeS₂ crystalline phases in glassy germanium disulfide matrix. , 2014, , .		0
114	In vivo study of cell division with stimulated Raman scattering. , 2018, , .		0
115	Enhancement of the light emission of color center containing nanodiamond structures. , 2018, , .		0
116	Characterisation of biological smoke generated by short pulse lasers. , 2018, , .		0
117	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
118	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
119	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
120	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
121	Optimization of the production parameters of substrates for SERS applications. , 2021, , .		0
122	Investigation of the Thermally Generated Au and Ag Nanoislands for SERS and LSPR Applications. Engineering Proceedings, 2021, 6, .	0.4	0