

Cameliu Himcinschi

List of Publications by Year in descending order

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105
papers

1,798
citations

279798

23
h-index

330143

37
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106
all docs

106
docs citations

106
times ranked

2884
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman Spectroscopic Characterization of Environmentally Friendly Binder Systems for Carbon-Bonded Filters. <i>Advanced Engineering Materials</i> , 2022, 24, 2100544.	3.5	6
2	Electrospun fibers as drying additive in cement-bonded alumina castables. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 2160-2171.	2.1	1
3	Control of Layering in Aurivillius Phase Nanocomposite Thin Films and Influence on Ferromagnetism and Optical Absorption. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1997-2004.	4.3	6
4	A Raman spectroscopic study of the pyrolysis of lactose and tannins. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 1361-1370.	2.5	6
5	Unexpected Phonon Behaviour in $\text{Bi}_{1-x}\text{Fe}_x\text{CrO}_3$, a Material System Different from Its BiFeO_3 and BiCrO_3 Parents. <i>Nanomaterials</i> , 2022, 12, 1607.	4.1	2
6	Resistive Switching in Ferroelectric $\text{Bi}_2\text{FeCrO}_6$ Thin Films and Impact on the Photovoltaic Effect. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	9
7	Improving thermoelectric performance of indium thiospinel by Se- and Te-substitution. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4008-4019.	5.5	7
8	Effect of the deposition method and ageing in atmosphere on the optical properties of tetraphenylporphyrins (TPPs) films. <i>Journal of Molecular Structure</i> , 2021, 1246, 131112.	3.6	0
9	Influence of carbon content and coking temperature on the biaxial flexural strength of carbon-bonded alumina at elevated temperatures. <i>Carbon</i> , 2020, 159, 324-332.	10.3	15
10	Discovery, Crystal Growth, and Characterization of Garnet $\text{Eu}_2\text{PbSb}_2\text{Zn}_3\text{O}_{12}$. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2512-2520.	2.0	2
11	Nanocomposites with Three-Dimensional Architecture and Impact on Photovoltaic Effect. <i>Nano Letters</i> , 2020, 20, 8789-8795.	9.1	9
12	Synthesis and characterization of calcium zirconate nanofibers produced by electrospinning. <i>Journal of the European Ceramic Society</i> , 2019, 39, 5338-5344.	5.7	7
13	Ferroelastic domain identification in BiFeO_3 crystals using Raman spectroscopy. <i>Scientific Reports</i> , 2019, 9, 379.	3.3	18
14	Structural stability and thermoelectric performance of high quality synthetic and natural pyrites (FeS_2). <i>Dalton Transactions</i> , 2019, 48, 10703-10713.	3.3	16
15	Indium thiospinel $\text{In}_{1-x}\text{Sb}_x\text{In}_2\text{S}_4$ structural characterization and thermoelectric properties. <i>Dalton Transactions</i> , 2019, 48, 8350-8360.	3.3	14
16	Hierarchical Aerographite 3D flexible networks hybridized by InP micro/nanostructures for strain sensor applications. <i>Scientific Reports</i> , 2018, 8, 13880.	3.3	7
17	Innovative carbon-bonded filters based on a new environmental-friendly binder system for steel melt filtration. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5580-5589.	5.7	16
18	Substitution-induced internal strain and high disorder in weakly radiation damaged hydrothermal zircon from Mt. Malosa, Malawi. <i>European Journal of Mineralogy</i> , 2018, 30, 659-679.	1.3	9

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19	Structure and orbital ordering of ultrathin LaVO ₃ probed by atomic resolution electron microscopy and Raman spectroscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1600350.	2.4	4
20	Thermally Induced Formation of Transition Aluminas from Boehmite. <i>Advanced Engineering Materials</i> , 2017, 19, 1700141.	3.5	19
21	Ductile behavior of fine-grained, carbon-bonded materials at elevated temperatures. <i>Carbon</i> , 2017, 122, 141-149.	10.3	21
22	Influence of piezoelectric strain on the Raman spectra of BiFeO ₃ films deposited on PMN-PT substrates. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	7
23	Coloration of Natural Zircon. <i>Canadian Mineralogist</i> , 2016, 54, 635-660.	1.0	11
24	Probing orbital ordering in LaVO ₃ epitaxial films by Raman scattering. <i>APL Materials</i> , 2016, 4, .	5.1	11
25	Fabrication of periodical surface structures by picosecond laser irradiation of carbon thin films: transformation of amorphous carbon in nanographite. <i>Applied Surface Science</i> , 2016, 390, 236-243.	6.1	4
26	Nonlinear optical coefficients of wurtzite-type $\chi^{(2)}$ -Ga ₂ N determined by Raman spectroscopy. <i>Physical Review B</i> , 2016, 94, .	3.2	7
27	Investigations of Ar ion irradiation effects on nanocrystalline SiC thin films. <i>Applied Surface Science</i> , 2016, 374, 339-345.	6.1	3
28	Resonant surface-enhanced Raman scattering by optical phonons in a monolayer of CdSe nanocrystals on Au nanocluster arrays. <i>Applied Surface Science</i> , 2016, 370, 410-417.	6.1	13
29	Raman spectroscopic investigations of epitaxial BiFeO ₃ thin films on rare earth scandate substrates. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 1245-1254.	2.5	16
30	Surface-enhanced Raman scattering by colloidal CdSe nanocrystal submonolayers fabricated by the Langmuir-Blodgett technique. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 2388-2395.	2.8	8
31	The Role of Ambient Gas and Pressure on the Structuring of Hard Diamond-Like Carbon Films Synthesized by Pulsed Laser Deposition. <i>Materials</i> , 2015, 8, 3284-3305.	2.9	28
32	Optical properties of epitaxial BiFeO ₃ thin films grown on LaAlO ₃ . <i>Applied Physics Letters</i> , 2015, 106, 012908.	3.3	46
33	Novel nanostructured hematite-spongine composite developed using an extreme biomimetic approach. <i>RSC Advances</i> , 2015, 5, 79031-79040.	3.6	71
34	Structural and optical studies on Nd doped ZnO thin films. <i>Superlattices and Microstructures</i> , 2015, 77, 325-332.	3.1	30
35	Raman tensor elements and Faust-Henry coefficients of wurtzite-type $\chi^{(2)}$ -Ga ₂ N: How to overcome the dilemma of the sign of Faust-Henry coefficients in $\chi^{(2)}$ -Ga ₂ N?. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	15
36	Raman spectroscopic characterization of novel carbon-bonded filter compositions for steel melt filtration. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 128-132.	2.5	13

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37	Synthesis of nanostructured chitin-hematite composites under extreme biomimetic conditions. RSC Advances, 2014, 4, 61743-61752.	3.6	53
38	Raman and Infrared Phonon Spectra of Ultrasmall Colloidal CdS Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 19492-19497.	3.1	50
39	Raman scattering in orthorhombic CuIn ₂ S ₂ nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 195-199.	1.8	24
40	Crystal Growth, Structure, and Transport Properties of the Charge-Transfer Salt Picene/2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane. Crystal Growth and Design, 2014, 14, 1338-1346.	3.0	66
41	Wear behaviour of hydrogen free diamond-like carbon thin films in diesel fuel at different temperatures. Diamond and Related Materials, 2014, 44, 78-87.	3.9	8
42	Optical and magneto-optical study of nickel and cobalt ferrite epitaxial thin films and submicron structures. Journal of Applied Physics, 2013, 113, .	2.5	94
43	Raman spectroscopic characterization of epitaxially grown GaN on sapphire. Journal Physics D: Applied Physics, 2013, 46, 285302.	2.8	21
44	Phonon polaritons in uniaxial crystals: A Raman scattering study of polaritons in $\text{In}_x\text{Ga}_{1-x}\text{N}$. Physical Review B, 2013, 88, .	3.2	12
45	Ge nanoparticle formation by thermal treatment of rf-sputtered ZrO ₂ /ZrGe ₂ O ₃ superlattices. Journal of Applied Physics, 2013, 113, 044303.	2.5	5
46	Raman scattering for probing semiconductor nanostructures: From nanocrystal arrays towards a single nanocrystal. , 2013, , .		0
47	CdZnS quantum dots formed by the Langmuir-Blodgett technique. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, 04D109.	1.2	13
48	Low-band gap nanoparticles embedded in high-K dielectrics. , 2012, , .		0
49	Raman Scattering for Probing Semiconductor Nanocrystal Arrays with a Low Areal Density. Journal of Physical Chemistry C, 2012, 116, 17164-17168.	3.1	23
50	Resonant Raman scattering of ZnS, ZnO, and ZnS/ZnO core/shell quantum dots. Applied Physics A: Materials Science and Processing, 2012, 107, 275-278.	2.3	38
51	Raman spectroscopic and X-ray diffraction investigations of epitaxial BiCrO ₃ thin films. Thin Solid Films, 2012, 520, 4590-4594.	1.8	4
52	Surface enhanced Raman scattering of light by ZnO nanostructures. Journal of Experimental and Theoretical Physics, 2011, 113, 983-991.	0.9	38
53	Phonon Raman spectra of colloidal CdTe nanocrystals: effect of size, non-stoichiometry and ligand exchange. Nanoscale Research Letters, 2011, 6, 79.	5.7	64
54	Single crystal strontium titanate surface and bulk modifications due to vacuum annealing. Journal of Applied Physics, 2011, 110, .	2.5	29

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55	Raman spectra and dielectric function of BiCrO ₃ : Experimental and first-principles studies. Journal of Applied Physics, 2011, 110, .	2.5	22
56	Influence of near-surface and volume real structure on the electronic properties of SrTiO ₃ MIM structures. Materials Research Society Symposia Proceedings, 2011, 1368, 1.	0.1	0
57	The influence of pyridine ligand onto the structure and phonon spectra of CdSe nanocrystals. Journal of Applied Physics, 2011, 109, 084334.	2.5	36
58	Optical characterisation of BiFeO ₃ epitaxial thin films grown by pulsed-laser deposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 296-299.	0.8	22
59	Optical investigation of CuPc thin films on vicinal Si(111). Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 312-315.	0.8	5
60	Spectroscopic ellipsometry and reflection anisotropy spectroscopy of lutetium diphthalocyanine films on silicon. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 222-226.	0.8	6
61	In situ Raman growth monitoring of indium/copper phthalocyanine interfaces. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 232-235.	0.8	6
62	Substrate influence on the optical and structural properties of pulsed laser deposited BiFeO ₃ epitaxial films. Journal of Applied Physics, 2010, 107, .	2.5	63
63	Resonance effects in Raman scattering of quantum dots formed by the Langmuir-Blodgett method. Journal of Physics: Conference Series, 2010, 245, 012045.	0.4	11
64	Growth and characterization of thin films prepared from perfluoro-isopropyl-substituted perfluorophthalocyanines. Thin Solid Films, 2009, 517, 4379-4384.	1.8	23
65	Vibrational properties of perfluoropentacene thin film. Journal of Electron Spectroscopy and Related Phenomena, 2009, 174, 65-69.	1.7	9
66	Asymmetry between Absorption and Photoluminescence Line Shapes of TPD: Spectroscopic Fingerprint of the Twisted Biphenyl Core. Journal of Physical Chemistry A, 2009, 113, 315-324.	2.5	33
67	Etching-back of uniaxially strained silicon on insulator investigated by spectroscopic ellipsometry. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 841-844.	1.8	2
68	Spectroscopic ellipsometry study of thin diffusion barriers of TaN and Ta for Cu interconnects in integrated circuits. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 922-926.	1.8	6
69	Modelling absorption and photoluminescence of TPD. Journal of Luminescence, 2008, 128, 845-847.	3.1	4
70	Strained Silicon on Wafer Level by Waferbonding: Materials Processing, Strain Measurements and Strain Relaxation. ECS Transactions, 2008, 16, 311-320.	0.5	8
71	Strained Silicon-On-Insulator - Fabrication and Characterization. ECS Transactions, 2007, 6, 339-344.	0.5	10
72	Strain relaxation in nanopatterned strained silicon round pillars. Applied Physics Letters, 2007, 90, 021902.	3.3	27

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73	Compressive uniaxially strained silicon on insulator by prestrained wafer bonding and layer transfer. <i>Applied Physics Letters</i> , 2007, 90, 231909.	3.3	8
74	Uniaxially strained silicon by wafer bonding and layer transfer. <i>Solid-State Electronics</i> , 2007, 51, 226-230.	1.4	11
75	High-density-plasma (HDP)-CVD oxide to thermal oxide wafer bonding for strained silicon layer transfer applications. <i>Applied Surface Science</i> , 2007, 253, 3595-3599.	6.1	1
76	sSOI fabrication by wafer bonding and layer splitting of thin SiGe virtual substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 135, 231-234.	3.5	4
77	Investigation of helium implantation induced blistering in InP. <i>Journal of Luminescence</i> , 2006, 121, 379-382.	3.1	12
78	Relaxation of strain in patterned strained silicon investigated by UV Raman spectroscopy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 135, 184-187.	3.5	20
79	Infrared spectroscopy of bonded silicon wafers. <i>Semiconductors</i> , 2006, 40, 1304-1313.	0.5	14
80	Growth peculiarities during vapor-liquid-solid growth of silicon nanowhiskers by electron-beam evaporation. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 85, 311-315.	2.3	36
81	Low temperature InP layer transfer onto Si by helium implantation and direct wafer bonding. <i>Semiconductor Science and Technology</i> , 2006, 21, 1311-1314.	2.0	14
82	Comparison of SiGe Virtual Substrates for the Fabrication of Strained Silicon-on-Insulator (sSOI) Using Wafer Bonding and Layer Transfer. <i>ECS Transactions</i> , 2006, 3, 317-324.	0.5	1
83	Reduced intermolecular interaction in organic ultrathin films. <i>Applied Physics Letters</i> , 2006, 88, 141913.	3.3	10
84	Vapour-transport-deposition growth of ZnO nanostructures: switch between axial wires and axial belts by indium doping. <i>Nanotechnology</i> , 2006, 17, S231-S239.	2.6	97
85	Thin organic heterostructures deposited via organic vapor phase deposition: spectroscopic ellipsometry characterization. <i>Journal of Crystal Growth</i> , 2005, 275, e1035-e1040.	1.5	8
86	Scaling down thickness of ULK materials for 65nm node and below and its effect on electrical performance. <i>Microelectronic Engineering</i> , 2005, 82, 405-410.	2.4	1
87	Spectroscopic ellipsometric characterization of organic films obtained via organic vapor phase deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 551-555.	2.3	29
88	Stability of tris(8-hydroxyquinoline)-aluminum(III) films investigated by vacuum ultraviolet spectroscopic ellipsometry. <i>Applied Physics Letters</i> , 2005, 86, 111907.	3.3	8
89	Infrared spectroscopic investigations of the buried interface in silicon bonded wafers. <i>Semiconductor Science and Technology</i> , 2004, 19, 579-585.	2.0	10
90	VASE and IR spectroscopy: excellent tools to study biaxial organic molecular thin films: DiMe-PTCDI on S-passivated GaAs(100). <i>Thin Solid Films</i> , 2004, 455-456, 586-590.	1.8	2

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91	Contributions to the static dielectric constant of low-k xerogel films derived from ellipsometry and IR spectroscopy. Thin Solid Films, 2004, 455-456, 433-437.	1.8	9
92	IR reflection of optical phonons in GaN/AlGaN superlattices. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2733-2736.	0.8	1
93	OVPD und Anwendung optischer Spektroskopiemethoden zur Wachstumskontrolle OVPD and Applications of Optical Spectroscopic Methods to Growth Control. Vakuum in Forschung Und Praxis, 2003, 15, 312-314.	0.1	0
94	Orientation of perylene derivatives on semiconductor surfaces. Applied Surface Science, 2003, 212-213, 501-507.	6.1	12
95	Optical properties and molecular orientation in organic thin films. Journal of Physics Condensed Matter, 2003, 15, S2699-S2718.	1.8	30
96	MAGNETIC PROPERTIES OF $\text{Ca}_x\text{La}_{1-x}\text{MnO}_3$ ($x > 0.5$) PEROVSKITES. Modern Physics Letters B, 2003, 17, 263-266.	1.9	1
97	Ellipsometric study of the change in the porosity of silica xerogels after chemical modification of the surface with hexamethyldisilazane. Analytical and Bioanalytical Chemistry, 2002, 374, 654-657.	3.7	14
98	Comparison of techniques to characterise the density, porosity and elastic modulus of porous low-k SiO_2 xerogel films. Microelectronic Engineering, 2002, 60, 133-141.	2.4	66
99	Silicon oxide in Si^-Si bonded wafers. Applied Surface Science, 2001, 175-176, 715-720.	6.1	8
100	Characterization of silica xerogel films by variable-angle spectroscopic ellipsometry and infrared spectroscopy. Semiconductor Science and Technology, 2001, 16, 806-811.	2.0	22
101	Crystallinity of PTCDA films on silicon derived via optical spectroscopic measurements. Applied Surface Science, 2001, 175-176, 363-368.	6.1	7
102	Magnetic and Magnetocaloric Properties of $\text{La}_{1.4-x}\text{Yb}_x\text{Ca}_{1.6}\text{Mn}_2\text{O}_7$. Materials Science Forum, 2001, 373-376, 521-524.	0.3	0
103	Growth of buried silicon oxide in Si^-Si bonded wafers upon annealing. Journal of Applied Physics, 2001, 89, 1992.	2.5	8
104	EPR AND MAGNETIC SUSCEPTIBILITY STUDIES OF $\text{B}_2\text{O}_3\text{-SrO-Fe}_2\text{O}_3$ GLASSES. Modern Physics Letters B, 1999, 13, 801-808.	1.9	22
105	Investigations during annealing of the interface in Si-Si bonded wafers by multiple internal transmission infrared spectroscopy. , 0, , .		0