

# Cameliu Himcinschi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5063369/publications.pdf>

Version: 2024-02-01

105  
papers

1,798  
citations

279798

23  
h-index

330143

37  
g-index

106  
all docs

106  
docs citations

106  
times ranked

2884  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vapour-transport-deposition growth of ZnO nanostructures: switch between c-axis wires and a-axis belts by indium doping. <i>Nanotechnology</i> , 2006, 17, S231-S239.	2.6	97
2	Optical and magneto-optical study of nickel and cobalt ferrite epitaxial thin films and submicron structures. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	94
3	Novel nanostructured hematite "spongin composite developed using an extreme biomimetic approach. <i>RSC Advances</i> , 2015, 5, 79031-79040.	3.6	71
4	Comparison of techniques to characterise the density, porosity and elastic modulus of porous low-k SiO <sub>2</sub> xerogel films. <i>Microelectronic Engineering</i> , 2002, 60, 133-141.	2.4	66
5	Crystal Growth, Structure, and Transport Properties of the Charge-Transfer Salt Picene/2,3,5,6-Tetrafluoro-7,8,8-tetracyanoquinodimethane. <i>Crystal Growth and Design</i> , 2014, 14, 1338-1346.	3.0	66
6	Phonon Raman spectra of colloidal CdTe nanocrystals: effect of size, non-stoichiometry and ligand exchange. <i>Nanoscale Research Letters</i> , 2011, 6, 79.	5.7	64
7	Substrate influence on the optical and structural properties of pulsed laser deposited BiFeO <sub>3</sub> epitaxial films. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	63
8	Synthesis of nanostructured chitin "hematite composites under extreme biomimetic conditions. <i>RSC Advances</i> , 2014, 4, 61743-61752.	3.6	53
9	Raman and Infrared Phonon Spectra of Ultrasmall Colloidal CdS Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19492-19497.	3.1	50
10	Optical properties of epitaxial BiFeO <sub>3</sub> thin films grown on LaAlO <sub>3</sub> . <i>Applied Physics Letters</i> , 2015, 106, 012908.	3.3	46
11	Surface enhanced Raman scattering of light by ZnO nanostructures. <i>Journal of Experimental and Theoretical Physics</i> , 2011, 113, 983-991.	0.9	38
12	Resonant Raman scattering of ZnS, ZnO, and ZnS/ZnO core/shell quantum dots. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 275-278.	2.3	38
13	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
14	The influence of pyridine ligand onto the structure and phonon spectra of CdSe nanocrystals. <i>Journal of Applied Physics</i> , 2011, 109, 084334.	2.5	36
15	Asymmetry between Absorption and Photoluminescence Line Shapes of TPD: Spectroscopic Fingerprint of the Twisted Biphenyl Core. <i>Journal of Physical Chemistry A</i> , 2009, 113, 315-324.	2.5	33
16	Optical properties and molecular orientation in organic thin films. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S2699-S2718.	1.8	30
17	Structural and optical studies on Nd doped ZnO thin films. <i>Superlattices and Microstructures</i> , 2015, 77, 325-332.	3.1	30
18	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

#	ARTICLE	IF	CITATIONS
19	Single crystal strontium titanate surface and bulk modifications due to vacuum annealing. Journal of Applied Physics, 2011, 110, .	2.5	29
20	The Role of Ambient Gas and Pressure on the Structuring of Hard Diamond-Like Carbon Films Synthesized by Pulsed Laser Deposition. Materials, 2015, 8, 3284-3305.	2.9	28
21	Strain relaxation in nanopatterned strained silicon round pillars. Applied Physics Letters, 2007, 90, 021902.	3.3	27
22	Raman scattering in orthorhombic $\text{Cu}_2\text{S}$ nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 195-199.	1.8	24
23	Growth and characterization of thin films prepared from perfluoro-isopropyl-substituted perfluorophthalocyanines. Thin Solid Films, 2009, 517, 4379-4384.	1.8	23
24	Raman Scattering for Probing Semiconductor Nanocrystal Arrays with a Low Areal Density. Journal of Physical Chemistry C, 2012, 116, 17164-17168.	3.1	23
25	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
26	Characterization of silica xerogel films by variable-angle spectroscopic ellipsometry and infrared spectroscopy. Semiconductor Science and Technology, 2001, 16, 806-811.	2.0	22
27	Optical characterisation of $\text{BiFeO}_3$ 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
28	Raman spectra and dielectric function of $\text{BiCrO}_3$ : Experimental and first-principles studies. Journal of Applied Physics, 2011, 110, .	2.5	22
29	Raman spectroscopic characterization of epitaxially grown GaN on sapphire. Journal Physics D: Applied Physics, 2013, 46, 285302.	2.8	21
30	Ductile behavior of fine-grained, carbon-bonded materials at elevated temperatures. Carbon, 2017, 122, 141-149.	10.3	21
31	Relaxation of strain in patterned strained silicon investigated by UV Raman spectroscopy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 135, 184-187.	3.5	20
32	Thermally Induced Formation of Transition Aluminas from Boehmite. Advanced Engineering Materials, 2017, 19, 1700141.	3.5	19
33	Ferroelastic domain identification in $\text{BiFeO}_3$ crystals using Raman spectroscopy. Scientific Reports, 2019, 9, 379.	3.3	18
34	Raman spectroscopic investigations of epitaxial $\text{BiFeO}_3$ thin films on rare earth scandate substrates. Journal of Raman Spectroscopy, 2015, 46, 1245-1254.	2.5	16
35	Innovative carbon-bonded filters based on a new environmental-friendly binder system for steel melt filtration. Journal of the European Ceramic Society, 2018, 38, 5580-5589.	5.7	16
36	Structural stability and thermoelectric performance of high quality synthetic and natural pyrites ( $\text{FeS}_2$ ). Dalton Transactions, 2019, 48, 10703-10713.	3.3	16

#	ARTICLE	IF	CITATIONS
37	Raman tensor elements and Faust-Henry coefficients of wurtzite-type $\Gamma_{\pm}$ -GaN: How to overcome the dilemma of the sign of Faust-Henry coefficients in $\Gamma_{\pm}$ -GaN?. Journal of Applied Physics, 2014, 116, .	2.5	15
38	Influence of carbon content and coking temperature on the biaxial flexural strength of carbon-bonded alumina at elevated temperatures. Carbon, 2020, 159, 324-332.	10.3	15
39	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
40	Infrared spectroscopy of bonded silicon wafers. Semiconductors, 2006, 40, 1304-1313.	0.5	14
41	Low temperature InP layer transfer onto Si by helium implantation and direct wafer bonding. Semiconductor Science and Technology, 2006, 21, 1311-1314.	2.0	14
42	Indium thiospinel $\text{In}_{1-x}\text{S}_{2-x}\text{S}_4$ structural characterization and thermoelectric properties. Dalton Transactions, 2019, 48, 8350-8360.	3.3	14
43	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
44	Raman spectroscopic characterization of novel carbon-bonded filter compositions for steel melt filtration. Journal of Raman Spectroscopy, 2014, 45, 128-132.	2.5	13
45	Resonant surface-enhanced Raman scattering by optical phonons in a monolayer of CdSe nanocrystals on Au nanocluster arrays. Applied Surface Science, 2016, 370, 410-417.	6.1	13
46	Orientation of perylene derivatives on semiconductor surfaces. Applied Surface Science, 2003, 212-213, 501-507.	6.1	12
47	Investigation of helium implantation induced blistering in InP. Journal of Luminescence, 2006, 121, 379-382.	3.1	12
48	Phonon polaritons in uniaxial crystals: A Raman scattering study of polaritons in $\Gamma_{\pm}$ -GaN. Physical Review B, 2013, 88, .	3.2	12
49	Uniaxially strained silicon by wafer bonding and layer transfer. Solid-State Electronics, 2007, 51, 226-230.	1.4	11
50	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
51	Coloration of Natural Zircon. Canadian Mineralogist, 2016, 54, 635-660.	1.0	11
52	Probing orbital ordering in LaVO <sub>3</sub> epitaxial films by Raman scattering. APL Materials, 2016, 4, .	5.1	11
53	Infrared spectroscopic investigations of the buried interface in silicon bonded wafers. Semiconductor Science and Technology, 2004, 19, 579-585.	2.0	10
54	Reduced intermolecular interaction in organic ultrathin films. Applied Physics Letters, 2006, 88, 141913.	3.3	10

#	ARTICLE	IF	CITATIONS
55	Strained Silicon-On-Insulator - Fabrication and Characterization. ECS Transactions, 2007, 6, 339-344.	0.5	10
56	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
57	Vibrational properties of perfluoropentacene thin film. Journal of Electron Spectroscopy and Related Phenomena, 2009, 174, 65-69.	1.7	9
58	Nanocomposites with Three-Dimensional Architecture and Impact on Photovoltaic Effect. Nano Letters, 2020, 20, 8789-8795.	9.1	9
59	Substitution-induced internal strain and high disorder in weakly radiation damaged hydrothermal zircon from Mt. Malosa, Malawi. European Journal of Mineralogy, 2018, 30, 659-679.	1.3	9
60	Resistive Switching in Ferroelectric Bi <sub>2</sub> FeCrO <sub>6</sub> Thin Films and Impact on the Photovoltaic Effect. Advanced Electronic Materials, 2022, 8, .	5.1	9
61	Silicon oxide in Si—Si bonded wafers. Applied Surface Science, 2001, 175-176, 715-720.	6.1	8
62	Growth of buried silicon oxide in Si—Si bonded wafers upon annealing. Journal of Applied Physics, 2001, 89, 1992.	2.5	8
63	Thin organic heterostructures deposited via organic vapor phase deposition: spectroscopic ellipsometry characterization. Journal of Crystal Growth, 2005, 275, e1035-e1040.	1.5	8
64	Stability of tris(8-hydroxyquinoline)-aluminum(III) films investigated by vacuum ultraviolet spectroscopic ellipsometry. Applied Physics Letters, 2005, 86, 111907.	3.3	8
65	Compressive uniaxially strained silicon on insulator by pretrained wafer bonding and layer transfer. Applied Physics Letters, 2007, 90, 231909.	3.3	8
66	Strained Silicon on Wafer Level by Waferbonding: Materials Processing, Strain Measurements and Strain Relaxation. ECS Transactions, 2008, 16, 311-320.	0.5	8
67	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
68	Surface-enhanced Raman scattering by colloidal CdSe nanocrystal submonolayers fabricated by the Langmuir-Blodgett technique. Beilstein Journal of Nanotechnology, 2015, 6, 2388-2395.	2.8	8
69	Crystallinity of PTCDA films on silicon derived via optical spectroscopic measurements. Applied Surface Science, 2001, 175-176, 363-368.	6.1	7
70	Influence of piezoelectric strain on the Raman spectra of BiFeO <sub>3</sub> films deposited on PMN-PT substrates. Applied Physics Letters, 2016, 108, .	3.3	7
71	Nonlinear optical coefficients of wurtzite-type $\chi^{(2)}$ -GaN determined by Raman spectroscopy. Physical Review B, 2016, 94, .	3.2	7
72	Hierarchical Aerographite 3D flexible networks hybridized by InP micro/nanostructures for strain sensor applications. Scientific Reports, 2018, 8, 13880.	3.3	7

#	ARTICLE	IF	CITATIONS
73	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
74	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
75	Spectroscopic ellipsometry study of thin diffusion barriers of TaN and Ta for Cu interconnects in integrated circuits. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 922-926.	1.8	6
76	Spectroscopic ellipsometry and reflection anisotropy spectroscopy of lutetium diphthalocyanine films on silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 222-226.	0.8	6
77	In situ Raman growth monitoring of indium/copper phthalocyanine interfaces. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 232-235.	0.8	6
78	Raman Spectroscopic Characterization of Environmentally Friendly Binder Systems for Carbon-Bonded Filters. <i>Advanced Engineering Materials</i> , 2022, 24, 2100544.	3.5	6
79	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
80	A Raman spectroscopic study of the pyrolysis of lactose and tannins. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 1361-1370.	2.5	6
81	Optical investigation of CuPc thin films on vicinal Si(111). <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 312-315.	0.8	5
82	Ge nanoparticle formation by thermal treatment of rf-sputtered ZrO <sub>2</sub> /ZrGe <sub>2</sub> O <sub>3</sub> superlattices. <i>Journal of Applied Physics</i> , 2013, 113, 044303.	2.5	5
83	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
84	Modelling absorption and photoluminescence of TPD. <i>Journal of Luminescence</i> , 2008, 128, 845-847.	3.1	4
85	Raman spectroscopic and X-ray diffraction investigations of epitaxial BiCrO <sub>3</sub> thin films. <i>Thin Solid Films</i> , 2012, 520, 4590-4594.	1.8	4
86	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
87	Structure and orbital ordering of ultrathin LaVO <sub>3</sub> probed by atomic resolution electron microscopy and Raman spectroscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1600350.	2.4	4
88	Investigations of Ar ion irradiation effects on nanocrystalline SiC thin films. <i>Applied Surface Science</i> , 2016, 374, 339-345.	6.1	3
89	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
90	Etching-back of uniaxially strained silicon on insulator investigated by spectroscopic ellipsometry. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 841-844.	1.8	2

#	ARTICLE	IF	CITATIONS
91	Discovery, Crystal Growth, and Characterization of Garnet $\text{Eu}_2\text{PbSb}_2\text{Zn}_3\text{O}_{12}$ . European Journal of Inorganic Chemistry, 2020, 2020, 2512-2520.	2.0	2
92	Unexpected Phonon Behaviour in $\text{BiFexCr}_{1-x}\text{O}_3$ , a Material System Different from Its $\text{BiFeO}_3$ and $\text{BiCrO}_3$ Parents. Nanomaterials, 2022, 12, 1607.	4.1	2
93	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
94	IR reflection of optical phonons in GaN/AlGaIn superlattices. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2733-2736.	0.8	1
95	Scaling down thickness of ULK materials for 65nm node and below and its effect on electrical performance. Microelectronic Engineering, 2005, 82, 405-410.	2.4	1
96	Comparison of SiGe Virtual Substrates for the Fabrication of Strained Silicon-on-Insulator (sSOI) Using Wafer Bonding and Layer Transfer. ECS Transactions, 2006, 3, 317-324.	0.5	1
97	High-density-plasma (HDP)-CVD oxide to thermal oxide wafer bonding for strained silicon layer transfer applications. Applied Surface Science, 2007, 253, 3595-3599.	6.1	1
98	Electrospun fibers as drying additive in cement-bonded alumina castables. International Journal of Applied Ceramic Technology, 2022, 19, 2160-2171.	2.1	1
99	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
100	Investigations during annealing of the interface in Si-Si bonded wafers by multiple internal transmission infrared spectroscopy. , 0, , .		0
101	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
102	Influence of near-surface and volume real structure on the electronic properties of $\text{SrTiO}_3$ MIM structures. Materials Research Society Symposia Proceedings, 2011, 1368, 1.	0.1	0
103	Low-band gap nanoparticles embedded in high-K dielectrics. , 2012, , .		0
104	Raman scattering for probing semiconductor nanostructures: From nanocrystal arrays towards a single nanocrystal. , 2013, , .		0
105	Effect of the deposition method and ageing in atmosphere on the optical properties of tetraphenylporphyrins (TPPs) films. Journal of Molecular Structure, 2021, 1246, 131112.	3.6	0