Dietrich R.T. Zahn

List of Publications by Year
in descending order

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810	15,516	36303	53230
papers	citations	51 h-index	85 g-index

826	826	826	17617
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoluminescence emission and Raman response of monolayer MoS_2, MoSe_2, and WSe_2. Optics Express, 2013, 21, 4908.	3.4	1,241
2	Vibrational spectroscopy of bulk and supported manganese oxides. Physical Chemistry Chemical Physics, 1999, 1, 185-190.	2.8	402
3	Enhancement of the thermoelectric properties of PEDOT:PSS thin films by post-treatment. Journal of Materials Chemistry A, 2013, 1, 7576.	10.3	305
4	The transport gap of organic semiconductors studied using the combination of direct and inverse photoemission. Chemical Physics, 2006, 325, 99-112.	1.9	194
5	Electronic and Vibrational Spectroscopies Applied to Organic/Inorganic Interfaces. Chemical Reviews, 2007, 107, 1161-1232.	47.7	149
6	Barrier height engineering of Ag/GaAs(100) Schottky contacts by a thin organic interlayer. Applied Surface Science, 2002, 190, 461-466.	6.1	132
7	A Fine Size Selection of Brightly Luminescent Water-Soluble Agâ€“Inâ€“S and Agâ€“Inâ€“S/ZnS Quantum Dots. Journal of Physical Chemistry C, 2017, 121, 9032-9042.	3.1	131
8	Resonant Raman spectroscopy of 3,4,9,10-perylene-tetracarboxylic-dianhydride epitaxial films. Physical Review B, 2000, 61, 13659-13669.	3.2	124
9	Copper-surface-mediated synthesis of acetylenic carbon-rich nanofibers for active metal-free photocathodes. Nature Communications, 2018, 9, 1140.	12.8	115
10	Raman spectroscopy investigation of size effects in cubic boron nitride. Applied Physics Letters, 1997, 70, 958-960.	3.3	102
11	Investigation of Second- and Third-Harmonic Generation in Few-Layer Gallium Selenide by Multiphoton Microscopy. Scientific Reports, 2015, 5, 10334.	3.3	98
12	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
13	Self-trapped exciton recombination in silicon nanocrystals. Physical Review B, 2001, 63, .	3.2	91
14	Highly Localized Strain in a MoS₂/Au Heterostructure Revealed by Tip-Enhanced Raman Spectroscopy. Nano Letters, 2017, 17, 6027-6033.	9.1	91
15	Macroheterocyclic Compounds - a Key Building Block in New Functional Materials and Molecular Devices. Macroheterocycles, 2020, 13, 311-467.	0.5	91
16	Resonant Raman scattering study of CdSe nanocrystals passivated with CdS and ZnS. Nanotechnology, 2007, 18, 285701.	2.6	89
17	Origin and Dynamics of Highly Efficient Broadband Photoluminescence of Aqueous Glutathione-Capped Size-Selected Agâ€“Inâ€“S Quantum Dots. Journal of Physical Chemistry C, 2018, 122, 13648-13658.	3.1	88
18	Size effects on Raman spectra of small CdSe nanoparticles in polymer films. Nanotechnology, 2008, 19, 305707.	2.6	86

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19	Plasmonic Heating Plays a Dominant Role in the Plasmon-Induced Photocatalytic Reduction of 4-Nitrobenzenethiol. Journal of Physical Chemistry C, 2018, 122, 5657-5663.	3.1	84
20	Analysis of molecular-beam epitaxial growth of InAs on GaAs(100) by reflection anisotropy spectroscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1992, 10, 1710.	1.6	81
21	Schottky contacts on passivated GaAs(100) surfaces: barrier height and reactivity. Applied Surface Science, 2004, 234, 341-348.	6.1	77
22	Cubic boron nitride films by d.c. and r.f. magnetron sputtering: layer characterization and process diagnostics. Diamond and Related Materials, 1996, 5, 1103-1112.	3.9	75
23	Nonresonant Surface-Enhanced Raman Scattering of ZnO Quantum Dots with Au and Ag Nanoparticles. ACS Nano, 2013, 7, 3420-3426.	14.6	74
24	Wafer-scale synthesis of defined polymer brushes under ambient conditions. Polymer Chemistry, 2015, 6, 8176-8183.	3.9	73
25	Giant gap-plasmon tip-enhanced Raman scattering of MoS₂monolayers on Au nanocluster arrays. Nanoscale, 2018, 10, 2755-2763.	5.6	70
26	Transport gap of organic semiconductors in organic modified Schottky contacts. Applied Surface Science, 2003, 212-213, 423-427.	6.1	69
27	Experimental investigation and simulation of hybrid organic/inorganic Schottky diodes. Journal of Physics Condensed Matter, 2003, 15, S2719-S2728.	1.8	67
28	Spectral features above LO phonon frequency in resonant Raman scattering spectra of small CdSe nanoparticles. Journal of Applied Physics, 2009, 106, .	2.5	67
29	Comparison of techniques to characterise the density, porosity and elastic modulus of porous low-k SiO2 xerogel films. Microelectronic Engineering, 2002, 60, 133-141.	2.4	66
30	Formation of interfacial layers in InSbâ€CdTe heterostructures studied by Raman scattering. Applied Physics Letters, 1987, 50, 742-744.	3.3	65
31	Phonon Raman spectra of colloidal CdTe nanocrystals: effect of size, non-stoichiometry and ligand exchange. Nanoscale Research Letters, 2011, 6, 79.	5.7	64
32	Substrate influence on the optical and structural properties of pulsed laser deposited BiFeO3 epitaxial films. Journal of Applied Physics, 2010, 107, .	2.5	63
33	Time-resolved photoluminescence study of excitons inÎ±-PTCDA as a function of temperature. Physical Review B, 2003, 68, .	3.2	62
34	Chemical post-treatment and thermoelectric properties of poly(3,4-ethylenedioxylthiophene):poly(styrenesulfonate) thin films. Journal of Applied Physics, 2014, 115, .	2.5	62
35	Combination of surface- and interference-enhanced Raman scattering by CuS nanocrystals on nanopatterned Au structures. Beilstein Journal of Nanotechnology, 2015, 6, 749-754.	2.8	62
36	The substrate matters in the Raman spectroscopy analysis of cells. Scientific Reports, 2015, 5, 13150.	3.3	61

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37	Raman- and IR-Active Phonons in CdSe/CdS Core/Shell Nanocrystals in the Presence of Interface Alloying and Strain. Journal of Physical Chemistry C, 2013, 117, 18225-18233.	3.1	60
38	Chemical reaction at the ZnSe/GaAs interface detected by Raman spectroscopy. Applied Physics Letters, 1990, 57, 1981-1982.	3.3	59
39	Investigation of molecular dimers inÎ±-PTCDA byab initiomethods: Binding energies, gas-to-crystal shift, and self-trapped excitons. Physical Review B, 2005, 72, .	3.2	59
40	Raman monitoring of semiconductor growth. Journal of Applied Physics, 1994, 75, 7330-7333.	2.5	57
41	Single crystals of the organic semiconductor perylene tetracarboxylic dianhydride studied by Raman spectroscopy. Physical Review B, 2000, 61, 14564-14569.	3.2	57
42	Synthesis and Characterization of Cu_xS (x = 1â€“2) Nanocrystals Formed by the Langmuirâ€“Blodgett Technique. Journal of Physical Chemistry C, 2014, 118, 23409-23414.	3.1	57
43	Experimental and theoretical investigations of the electronic band structure of metal-organic frameworks of HKUST-1 type. Applied Physics Letters, 2015, 107, .	3.3	57
44	Fully Integrated Organic Nanocrystal Diode as High Performance Room Temperature NO₂ Sensor. Advanced Materials, 2016, 28, 2971-2977.	21.0	57
45	Vibrational spectroscopy of compound semiconductor nanocrystals. Journal Physics D: Applied Physics, 2018, 51, 503001.	2.8	57
46	Monolayer grafting of aminosilane on magnetic nanoparticles: An efficient approach for targeted drug delivery system. Journal of Colloid and Interface Science, 2018, 529, 415-425.	9.4	57
47	Stable Dispersion of Iodide-Capped PbSe Quantum Dots for High-Performance Low-Temperature Processed Electronics and Optoelectronics. Chemistry of Materials, 2015, 27, 4328-4337.	6.7	56
48	Resonant Raman studies of compositional and size dispersion of CdS1â^'xSexnanocrystals in a glass matrix. Journal of Physics Condensed Matter, 2004, 16, 9069-9082.	1.8	54
49	Inherently Broadband Photoluminescence in Agâ€“Inâ€“S/ZnS Quantum Dots Observed in Ensemble and Single-Particle Studies. Journal of Physical Chemistry C, 2019, 123, 2632-2641.	3.1	53
50	APTES monolayer coverage on self-assembled magnetic nanospheres for controlled release of anticancer drug Nintedanib. Scientific Reports, 2021, 11, 5674.	3.3	53
51	Sulphide passivation of GaAs: the role of the sulphur chemical activity. Semiconductor Science and Technology, 1998, 13, 611-614.	2.0	52
52	Spectral and luminescent properties of ZnOâ€“SiO₂ coreâ€“shell nanoparticles with size-selected ZnO cores. RSC Advances, 2014, 4, 63393-63401.	3.6	52
53	High-resolution inkjet printing of conductive carbon nanotube twinÂlines utilizing evaporation-driven self-assembly. Carbon, 2016, 96, 382-393.	10.3	52
54	GaSe oxidation in air: from bulk to monolayers. Semiconductor Science and Technology, 2017, 32, 105004.	2.0	52

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55	Sb overlayers on GaAs(110). Surface Science, 1986, 178, 140-148.	1.9	51
56	The influence of shell parameters on phonons in coreâ€“shell nanoparticles: a resonant Raman study. Nanotechnology, 2009, 20, 365704.	2.6	51
57	Luminescence and photoelectrochemical properties of size-selected aqueous copper-doped Agâ€“Inâ€“S quantum dots. RSC Advances, 2018, 8, 7550-7557.	3.6	51
58	Deposition of thin films of a transition metal complex by spin coating. Chemical Physics Letters, 2006, 432, 226-229.	2.6	50
59	Raman and Infrared Phonon Spectra of Ultrasmall Colloidal CdS Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 19492-19497.	3.1	50
60	Hybrid N-Butylamine-Based Ligands for Switching the Colloidal Solubility and Regimentation of Inorganic-Capped Nanocrystals. ACS Nano, 2017, 11, 1559-1571.	14.6	49
61	The anisotropic dielectric function for copper phthalocyanine thin films. Organic Electronics, 2004, 5, 291-297.	2.6	48
62	Raman Scattering Study of Cu₃SnS₄ Colloidal Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 27554-27558.	3.1	48
63	Morphology-induced phonon spectra of CdSe/CdS nanoplatelets: core/shell vs. coreâ€“crown. Nanoscale, 2016, 8, 17204-17212.	5.6	48
64	Non-stoichiometric Cuâ€“Inâ€“S@ZnS nanoparticles produced in aqueous solutions as light harvesters for liquid-junction photoelectrochemical solar cells. RSC Advances, 2016, 6, 100145-100157.	3.6	48
65	Study of the interaction of tris-(8-hydroxyquinoline) aluminum (Alq3) with potassium using vibrational spectroscopy: Examination of possible isomerization upon K doping. Journal of Applied Physics, 2004, 96, 5534-5542.	2.5	46
66	Optical properties of epitaxial BiFeO3 thin films grown on LaAlO3. Applied Physics Letters, 2015, 106, 012908.	3.3	46
67	Surface- and tip-enhanced Raman spectroscopy reveals spin-waves in iron oxide nanoparticles. Nanoscale, 2015, 7, 9545-9551.	5.6	46
68	Site-Dependent Donation/Backdonation Charge Transfer at the CoPc/Ag(111) Interface. Langmuir, 2012, 28, 13325-13330.	3.5	45
69	Enhanced targeting of invasive glioblastoma cells by peptide-functionalized gold nanorods in hydrogel-based 3D cultures. Acta Biomaterialia, 2017, 58, 12-25.	8.3	45
70	Near-Infrared Cuâ€“Inâ€“Se-Based Colloidal Nanocrystals via Cation Exchange. Chemistry of Materials, 2018, 30, 2607-2617.	6.7	45
71	Tuning the reduction and conductivity of solution-processed graphene oxide by intense pulsed light. Carbon, 2016, 102, 236-244.	10.3	44
72	The growth of cubic CdS on InP(110) studied in situ by Raman spectroscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1991, 9, 2206.	1.6	43

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73	Molecularâ€beamâ€epitaxy growth of CdTe on InSb (110) monitoredin situby Raman spectroscopy. Journal of Applied Physics, 1995, 78, 4060-4065.	2.5	43
74	Optical properties of nitrogen-rich carbon films deposited by d.c. magnetron sputtering. Diamond and Related Materials, 1997, 6, 33-40.	3.9	43
75	Resonant Raman study of phonons in high-quality colloidal CdTe nanoparticles. Applied Physics Letters, 2009, 94, .	3.3	43
76	Chloride and Indiumâ€Chlorideâ€Complex Inorganic Ligands for Efficient Stabilization of Nanocrystals in Solution and Doping of Nanocrystal Solids. Advanced Functional Materials, 2016, 26, 2163-2175.	14.9	43
77	Raman scattering study of surface barriers in GaAs passivated in alcoholic sulfide solutions. Journal of Applied Physics, 1997, 82, 2640-2642.	2.5	42
78	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalystâ€free Photoelectrochemical Water Reduction. Angewandte Chemie - International Edition, 2019, 58, 10368-10374.	13.8	42
79	Ellipsometry from infrared to vacuum ultraviolet: Structural properties of thin anisotropic guanine films on silicon. Physica Status Solidi (B): Basic Research, 2005, 242, 2681-2687.	1.5	41
80	Thin films with high surface roughness: thickness and dielectric function analysis using spectroscopic ellipsometry. SpringerPlus, 2014, 3, 82.	1.2	41
81	Electrochemical Tuning of Localized Surface Plasmon Resonance in Copper Chalcogenide Nanocrystals. Journal of Physical Chemistry C, 2017, 121, 18244-18253.	3.1	41
82	Structure of nitrogenated amorphous carbon films from NEXAFS. Diamond and Related Materials, 2002, 11, 8-15.	3.9	40
83	Theoretical studies of the vibrational properties of the 3,4,9,10,-perylene tetracarboxylic dianhydride (PTCDA) molecule. Computational and Theoretical Chemistry, 2003, 625, 39-46.	1.5	40
84	Study of dependence of molecular orientation and optical properties of zinc phthalocyanine grown under two different pressure conditions. Journal of Applied Physics, 2007, 101, 013503.	2.5	40
85	Determination of the Voigt constant of phthalocyanines by magneto-optical Kerr-effect spectroscopy. Physical Review B, 2009, 79, .	3.2	40
86	Surface- and tip-enhanced resonant Raman scattering from CdSe nanocrystals. Physical Chemistry Chemical Physics, 2015, 17, 21198-21203.	2.8	40
87	Response of lead phthalocyanine to high NO2 concentration. Sensors and Actuators B: Chemical, 1995, 25, 596-599.	7.8	39
88	Raman study of self-assembled InAs quantum dots embedded in AlAs: influence of growth temperature. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 199-202.	2.7	39
89	Determination of the Charge Transport Mechanisms in Ultrathin Copper Phthalocyanine Vertical Heterojunctions. Journal of Physical Chemistry C, 2014, 118, 7272-7279.	3.1	39
90	2D vibrational properties of epitaxial silicene on Ag(111). 2D Materials, 2017, 4, 015008.	4.4	39

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91	â€œGreenâ€•Aqueous Synthesis and Advanced Spectral Characterization of Size-Selected Cu2ZnSnS4 Nanocrystal Inks. Scientific Reports, 2018, 8, 13677.	3.3	39
92	â€œBand bendingâ€•in copper phthalocyanine on hydrogen-passivated Si(111). Organic Electronics, 2005, 6, 168-174.	2.6	38
93	Surface enhanced Raman scattering of light by ZnO nanostructures. Journal of Experimental and Theoretical Physics, 2011, 113, 983-991.	0.9	38
94	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
95	Carbon p Electron Ferromagnetism in Silicon Carbide. Scientific Reports, 2015, 5, 8999.	3.3	38
96	Annealing-induced structural transformation of gelatin-capped Se nanoparticles. Solid State Communications, 2008, 145, 288-292.	1.9	37
97	Compact metal probes: A solution for atomic force microscopy based tip-enhanced Raman spectroscopy. Review of Scientific Instruments, 2012, 83, 123708.	1.3	37
98	Origin of the Broadband Photoluminescence of Pristine and Cu⁺/Ag⁺-Doped Ultrasmall CdS and CdSe/CdS Quantum Dots. Journal of Physical Chemistry C, 2018, 122, 10267-10277.	3.1	37
99	Raman characterization of Cu₂ZnSnS₄ nanocrystals: phonon confinement effect and formation of Cu_xS phases. RSC Advances, 2018, 8, 30736-30746.	3.6	37
100	Bias enhanced deposition of highly oriented Î²-SiC thin films using low pressure hot filament chemical vapour deposition technique. Thin Solid Films, 2002, 419, 114-117.	1.8	36
101	Growth peculiarities during vaporâ€“liquidâ€“solid growth of silicon nanowhiskers by electron-beam evaporation. Applied Physics A: Materials Science and Processing, 2006, 85, 311-315.	2.3	36
102	Nanostructured Silver Substrates With Stable and Universal SERS Properties: Application to Organic Molecules and Semiconductor Nanoparticles. Nanoscale Research Letters, 2010, 5, 403-409.	5.7	36
103	The influence of pyridine ligand onto the structure and phonon spectra of CdSe nanocrystals. Journal of Applied Physics, 2011, 109, 084334.	2.5	36
104	A disordered layered phase in thin films of sexithiophene. Chemical Physics Letters, 2013, 574, 51-55.	2.6	36
105	Pulsed laser deposited CoFe₂O₄ thin films as supercapacitor electrodes. RSC Advances, 2020, 10, 19353-19359.	3.6	36
106	Energy band dispersion in well ordered N,Nâ€²-dimethyl-3,4,9,10-perylenetetracarboxylic diimide films. Applied Physics Letters, 2004, 85, 4657-4659.	3.3	35
107	Surface enhanced Raman scattering by CdS quantum dots. JETP Letters, 2008, 88, 799-801.	1.4	35
108	Electronic structure, optical properties, and lattice dynamics of orthorhombic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">CdGeS</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant=	3.2	35

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109	CuI as versatile hole-selective contact for organic solar cell based on anthracene-containing PPEâ€“PPV. Solar Energy Materials and Solar Cells, 2015, 143, 369-374.	6.2	35
110	Confirming the Dual Role of Etchants during the Enrichment of Semiconducting Single Wall Carbon Nanotubes by Chemical Vapor Deposition. Chemistry of Materials, 2015, 27, 5964-5973.	6.7	35
111	Aluminum and copper nanostructures for surface-enhanced Raman spectroscopy: A one-to-one comparison to silver and gold. Sensors and Actuators B: Chemical, 2018, 262, 922-927.	7.8	35
112	Graphitic carbon nitride nanotubes: a new material for emerging applications. RSC Advances, 2020, 10, 34059-34087.	3.6	35
113	Optical vibrational modes in (Cd, Pb, Zn)S quantum dots embedded in Langmuirâ€“Blodgett matrices. Thin Solid Films, 2002, 422, 200-204.	1.8	34
114	Stark effect in type-II Ge/Si quantum dots. Physical Review B, 2003, 67, .	3.2	34
115	Alloyed CuInS2â€“ZnS nanorods: synthesis, structure and optical properties. CrystEngComm, 2015, 17, 5634-5643.	2.6	34
116	InSbâ€“CdTe interfaces: A combined study by soft x-ray photoemission, low-energy electron diffraction, and Raman spectroscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1987, 5, 1233.	1.6	33
117	Low-temperature time-resolved photoluminescence characterization of 3,4,9,10-perylene tetracarboxylic dianhydride crystals. Physical Review B, 2002, 66, .	3.2	33
118	Dielectric functions of DNA base films from near-infrared to ultra-violet. Physica Status Solidi (B): Basic Research, 2005, 242, 3047-3052.	1.5	33
119	Initial Growth of Lutetium(III) Bis-phthalocyanine on Ag(111) Surface. Journal of the American Chemical Society, 2011, 133, 5538-5544.	13.7	33
120	The role of a plasmonic substrate on the enhancement and spatial resolution of tip-enhanced Raman scattering. Faraday Discussions, 2019, 214, 309-323.	3.2	33
121	Brightly Luminescent Core/Shell Nanoplatelets with Continuously Tunable Optical Properties. Advanced Optical Materials, 2019, 7, 1801478.	7.3	33
122	Phase transition from the cubic to the hexagonal modification in thin CdS films on InP(110). Advanced Materials for Optics and Electronics, 1994, 3, 11-14.	0.4	32
123	Influence of deposition temperature on the structure of 3,4,9,10-perylene tetracarboxylic dianhydride thin films on H-passivated silicon probed by Raman spectroscopy. Organic Electronics, 2000, 1, 49-56.	2.6	32
124	Interface phonons in InAs and AlAs quantum dot structures. Physical Review B, 2004, 70, .	3.2	32
125	Enhanced Raman scattering of ZnO nanocrystals in the vicinity of gold and silver nanostructured surfaces. Optics Express, 2016, 24, A168.	3.4	32
126	Î³-Bi₂O₃ â€“ To Be or Not To Be? Comparison of the Sillenite Î³-Bi₂O₃ and Isomorphous Sillenite-Type Bi₁₂SiO₂₀. Inorganic Chemistry, 2018, 57, 8540-8549.	4.0	32

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127	Electronic properties of GaAs(100) surface passivated in alcoholic sulfide solutions. Applied Surface Science, 1998, 133, 17-22.	6.1	31
128	Investigation of Chemically Treated Basalt and Glass Fibres. Mikrochimica Acta, 2000, 133, 171-174.	5.0	31
129	The combined magnetic field and iron oxide-PLGA composite particles: Effective protein antigen delivery and immune stimulation in dendritic cells. Journal of Colloid and Interface Science, 2018, 520, 101-111.	9.4	31
130	Ultra-thin PTCDA layers studied by optical spectroscopies. Fresenius' Journal of Analytical Chemistry, 1999, 363, 189-192.	1.5	30
131	Energy level alignment driven by electron affinity difference at 3,4,9,10-perylenetetracarboxylic dianhydride/n-GaAs(100) interfaces. Applied Physics Letters, 2001, 79, 4124-4126.	3.3	30
132	Optical properties and molecular orientation in organic thin films. Journal of Physics Condensed Matter, 2003, 15, S2699-S2718.	1.8	30
133	Structural and optical studies on Nd doped ZnO thin films. Superlattices and Microstructures, 2015, 77, 325-332.	3.1	30
134	Spectroscopic ellipsometric characterization of organic films obtained via organic vapor phase deposition. Applied Physics A: Materials Science and Processing, 2005, 80, 551-555.	2.3	29
135	Magnetic field influence on the molecular alignment of vanadyl phthalocyanine thin films. Journal of Crystal Growth, 2006, 291, 166-174.	1.5	29
136	Thermal stability and Schottky barrier of Sb overlayers on GaAs(110) and InP(110). Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1990, 8, 680.	1.6	28
137	Tuning Schottky barrier heights by organic modification of metal-semiconductor contacts. Vacuum, 2002, 67, 101-113.	3.5	28
138	Determination of the anisotropic dielectric function for metal free phthalocyanine thin films. Thin Solid Films, 2004, 455-456, 551-556.	1.8	28
139	Structural and optical characterization of colloidal Se nanoparticles prepared via the acidic decomposition of sodium selenosulfate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 320, 169-174.	4.7	28
140	Thermal treatment-dependent chemical composition of ternary CdS1â^'xSex nanocrystals grown in borosilicate glass. Journal of Crystal Growth, 2010, 312, 1709-1716.	1.5	28
141	Photochemical formation and photoelectrochemical properties of TiO2/Sb2S3 heterostructures. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 303-304, 8-16.	3.9	28
142	Probing the structure of CuInS 2 -ZnS core-shell and similar nanocrystals by Raman spectroscopy. Applied Surface Science, 2017, 395, 24-28.	6.1	28
143	Large-scale self-organized gold nanostructures with bidirectional plasmon resonances for SERS. RSC Advances, 2018, 8, 22569-22576.	3.6	28
144	Effect of annealing on the band bending and the overlayer morphology at Sb/IIIâ€“V (110) interfaces. Applied Surface Science, 1992, 56-58, 169-177.	6.1	27

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145	Micro-Raman spectroscopy investigation of C3N4 crystals deposited on nickel substrates. Diamond and Related Materials, 1998, 7, 52-56.	3.9	27
146	Raman study of self-assembled GaAs and AlAs islands embedded in InAs. Physical Review B, 2000, 61, 13785-13790.	3.2	27
147	Band diagram of the AlF3âˆ•SiO2âˆ•Si system. Journal of Applied Physics, 2005, 97, 093707.	2.5	27
148	Vibrational spectra of quantum dots formed by Langmuirâ€“Blodgett technique. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C5E22-C5E24.	1.2	27
149	Colloidal ZnO nanocrystals in dimethylsulfoxide: a new synthesis, optical, photo- and electroluminescent properties. Nanotechnology, 2014, 25, 075601.	2.6	27
150	Optical and magneto-optical properties of metal phthalocyanine and metal porphyrin thin films. Journal of Physics Condensed Matter, 2014, 26, 104201.	1.8	27
151	Fermi resonance in the phonon spectra of quaternary chalcogenides of the type Cu₂ZnGeS₄. Journal of Physics Condensed Matter, 2016, 28, 065401.	1.8	27
152	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalystâ€free Photoelectrochemical Water Reduction. Angewandte Chemie, 2019, 131, 10476-10482.	2.0	27
153	PTCDA film formation on Si(111):H-1Ã—1 surface: total current spectroscopy monitoring. Surface Science, 2000, 446, 193-198.	1.9	26
154	Millisecond photoluminescence kinetics in a system of direct-bandgap InAs quantum dots in an AlAs matrix. JETP Letters, 2003, 77, 389-392.	1.4	26
155	Phonon Spectra of Small Colloidal II-VI Semiconductor Nanocrystals. International Journal of Spectroscopy, 2012, 2012, 1-6.	1.6	26
156	Surface enhanced Raman scattering by organic and inorganic semiconductors formed on laterally ordered arrays of Au nanoclusters. Thin Solid Films, 2013, 543, 35-40.	1.8	26
157	Optical investigation of CdS quantum dots in Langmuir-Blodgett films. Applied Physics A: Materials Science and Processing, 1999, 69, 97-100.	2.3	25
158	GaAs surface passivation by ultra-high vacuum deposition of chalcogen atoms. Vacuum, 2000, 57, 139-144.	3.5	25
159	Reflectance anisotropy spectroscopy of the growth of perylene-3,4,9,10-tetracarboxylic dianhydride on chalcogen passivated GaAs(001) surfaces. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 2077.	1.6	25
160	Growth of organic films on passivated semiconductor surfaces: gallium arsenide versus silicon. Applied Surface Science, 2001, 175-176, 326-331.	6.1	25
161	Size-selective Raman scattering in self-assembled Ge/Si quantum dot superlattices. Nanotechnology, 2002, 13, 55-58.	2.6	25
162	Optical constants of 3,4,9,10-perylenetetracarboxylic dianhydride films on silicon and gallium arsenide studied by spectroscopic ellipsometry. Applied Physics A: Materials Science and Processing, 2002, 75, 501-506.	2.3	25

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163	Initial growth at the F16CoPc/Ag(111) interface. Surface Science, 2011, 605, 1510-1515.	1.9	25
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