

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4029837/enda-mcglynn-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

127 papers	1,808 citations	23 h-index	34 g-index
139 ext. papers	1,968 ext. citations	3 avg, IF	4.31 L-index

#	Paper	IF	Citations
127	Surface excitonic emission and quenching effects in ZnO nanowire/nanowall systems: Limiting effects on device potential. <i>Physical Review B</i> , 2005 , 71,	3.3	174
126	Structural, optical and magnetic properties of Cr doped ZnO microrods prepared by spray pyrolysis method. <i>Applied Surface Science</i> , 2011 , 257, 9293-9298	6.7	79
125	Structural, optical and magnetic properties of Ni-doped ZnO micro-rods grown by the spray pyrolysis method. <i>Chemical Physics Letters</i> , 2012 , 525-526, 72-76	2.5	58
124	Multiphoton excitation of surface plasmon-polaritons and scaling of nanoripple formation in large bandgap materials. <i>Optical Materials Express</i> , 2013 , 3, 1705	2.6	52
123	Identification of donor-related impurities in ZnO using photoluminescence and radiotracer techniques. <i>Physical Review B</i> , 2006 , 73,	3.3	52
122	Control of ZnO nanorod array density by Zn supersaturation variation and effects on field emission. <i>Nanotechnology</i> , 2007 , 18, 215704	3.4	47
121	Correlation of Raman and X-ray diffraction measurements of annealed pulsed laser deposited ZnO thin films. <i>Thin Solid Films</i> , 2003 , 436, 273-276	2.2	44
120	Studying the growth conditions, the alignment and structure of ZnO nanorods. <i>Surface and Coatings Technology</i> , 2005 , 200, 1093-1096	4.4	40
119	RHEED studies of nucleation of Ge islands on Si(001) and optical properties of ultra-small Ge quantum dots. <i>Thin Solid Films</i> , 2000 , 369, 79-83	2.2	35
118	(2003) ZnO thin films grown by pulsed laser deposition on CeO ₂ -buffered r-sapphire substrate. <i>Journal of Applied Physics</i> , 2007 , 101, 013509	2.5	34
117	A Study of Drop-Coated and Chemical Bath-Deposited Buffer Layers for Vapor Phase Deposition of Large Area, Aligned, Zinc Oxide Nanorod Arrays. <i>Crystal Growth and Design</i> , 2010 , 10, 2400-2408	3.5	33
116	Properties of Li-, P- and N-doped ZnO thin films prepared by pulsed laser deposition. <i>Superlattices and Microstructures</i> , 2005 , 38, 397-405	2.8	33
115	Structural, optical and magnetic properties of Zn _{1-x} Mn _x O micro-rod arrays synthesized by spray pyrolysis method. <i>Thin Solid Films</i> , 2012 , 520, 5172-5178	2.2	30
114	Carbothermal reduction vapor phase transport growth of ZnO nanostructures: Effects of various carbon sources. <i>Journal of Applied Physics</i> , 2009 , 105, 094306	2.5	29
113	Study of Morphological and Related Properties of Aligned Zinc Oxide Nanorods Grown by Vapor Phase Transport on Chemical Bath Deposited Buffer Layers. <i>Crystal Growth and Design</i> , 2011 , 11, 5378-5386	3.5	28
112	ZnO films grown by pulsed-laser deposition on soda lime glass substrates for the ultraviolet inactivation of biofilms. <i>Science and Technology of Advanced Materials</i> , 2009 , 10, 045003	7.1	28
111	Growth of ZnO nanostructures on Au-coated Si: Influence of growth temperature on growth mechanism and morphology. <i>Journal of Applied Physics</i> , 2008 , 104, 084309	2.5	28

110	Defect-induced room temperature ferromagnetism in B-doped ZnO. <i>Ceramics International</i> , 2013 , 39, 4609-4617	5.1	27
109	Microscopic origins of the surface exciton photoluminescence peak in ZnO nanostructures. <i>Physical Review B</i> , 2011 , 83,	3.3	27
108	Alignment, Morphology and Defect Control of Vertically Aligned ZnO Nanorod Array: Competition between Surfactant and Stabilizer Roles of the Amine Species and Its Photocatalytic Properties. <i>Crystal Growth and Design</i> , 2014 , 14, 2873-2879	3.5	26
107	A novel, substrate independent three-step process for the growth of uniform ZnO nanorod arrays. <i>Thin Solid Films</i> , 2010 , 518, 4489-4492	2.2	26
106	HO-assisted photoelectrocatalytic degradation of Mitoxantrone using CuO nanostructured films: Identification of by-products and toxicity. <i>Science of the Total Environment</i> , 2019 , 651, 2845-2856	10.2	24
105	Effects of Cu diffusion-doping on structural, optical, and magnetic properties of ZnO nanorod arrays grown by vapor phase transport method. <i>Journal of Applied Physics</i> , 2012 , 111, 013903	2.5	23
104	A catalyst-free and facile route to periodically ordered and c-axis aligned ZnO nanorod arrays on diverse substrates. <i>Nanoscale</i> , 2011 , 3, 1675-82	7.7	23
103	Pulsed laser deposition of ZnO and Mn-doped ZnO thin films. <i>Applied Surface Science</i> , 2003 , 208-209, 589-593	6.7	23
102	Synthesis and characterization of Mn-doped ZnO nanorods grown in an ordered periodic honeycomb pattern using nanosphere lithography. <i>Ceramics International</i> , 2014 , 40, 7753-7759	5.1	21
101	Unambiguous identification of the role of a single Cu atom in the ZnO structured green band. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 215802	1.8	20
100	Multiphoton-absorption induced ultraviolet luminescence of ZnO nanorods using low-energy femtosecond pulses. <i>Journal of Applied Physics</i> , 2010 , 108, 043107	2.5	20
99	Characterization of nitrogen-doped ZnO thin films grown by plasma-assisted pulsed laser deposition on sapphire substrates. <i>Superlattices and Microstructures</i> , 2007 , 42, 21-25	2.8	19
98	Effect of polycrystallinity on the optical properties of highly oriented ZnO grown by pulsed laser deposition. <i>Thin Solid Films</i> , 2004 , 458, 330-335	2.2	19
97	Effects of excitonic diffusion on stimulated emission in nanocrystalline ZnO. <i>Applied Physics Letters</i> , 2006 , 88, 071919	3.4	18
96	Relativistic laser nano-plasmonics for effective fast particle production. <i>Plasma Physics and Controlled Fusion</i> , 2016 , 58, 014038	2	17
95	Synthesis and photoluminescence of ZnO nanowires/nanorods. <i>Journal of Materials Science: Materials in Electronics</i> , 2005 , 16, 397-401	2.1	17
94	Fabrication of p-type doped ZnO thin films using pulsed laser deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2005 , 16, 421-427	2.1	16
93	Defect luminescence of GaN grown by pulsed laser deposition. <i>Journal of Crystal Growth</i> , 2001 , 222, 497-502	1.6	16

92	Study of photoluminescence at 3.310 and 3.368 eV in GaN/sapphire(0001) and GaN/GaAs(001) grown by liquid-target pulsed-laser deposition. <i>Applied Physics Letters</i> , 2002 , 80, 3301-3303	3.4	16
91	The luminescent properties of CuAlO ₂ . <i>Journal of Materials Chemistry C</i> , 2014 , 2, 7859-7868	7.1	15
90	Highly transparent and reproducible nanocrystalline ZnO and AZO thin films grown by room temperature pulsed-laser deposition on flexible Zeonor plastic substrates. <i>Materials Research Express</i> , 2015 , 2, 096401	1.7	15
89	ZnO nanorods for efficient third harmonic UV generation. <i>Optical Materials Express</i> , 2014 , 4, 701	2.6	15
88	Field emission in ordered arrays of ZnO nanowires prepared by nanosphere lithography and extended Fowler-Nordheim analyses. <i>Journal of Applied Physics</i> , 2011 , 110, 124324	2.5	15
87	Excitonic properties of the polar faces of bulk ZnO after wet etching. <i>Physica B: Condensed Matter</i> , 2003 , 340-342, 210-215	2.8	14
86	The dominant role of adsorbed fluid layers on the polar surfaces of ZnO in ambient atmospheric conditions.. <i>Nanotechnology</i> , 2004 , 15,	3.4	14
85	ZnO nanostructured thin films grown by pulsed laser deposition in mixed O ₂ / Ar background gas. <i>Superlattices and Microstructures</i> , 2007 , 42, 468-472	2.8	13
84	ZnO thin films grown on platinum (111) buffer layers by pulsed laser deposition. <i>Thin Solid Films</i> , 2006 , 500, 78-83	2.2	13
83	Ultraviolet stimulated emission from bulk and polycrystalline ZnO thin films with varying grain sizes. <i>Physica B: Condensed Matter</i> , 2003 , 340-342, 245-249	2.8	13
82	Pulsed laser deposition of manganese doped GaN thin films. <i>Solid-State Electronics</i> , 2003 , 47, 533-537	1.7	13
81	Theoretical Analysis of Nucleation and Growth of ZnO Nanostructures in Vapor Phase Transport Growth. <i>Crystal Growth and Design</i> , 2011 , 11, 4581-4587	3.5	12
80	Photoluminescence analysis of semiconductors using radioactive isotopes 2000 , 129, 443-460		12
79	Low temperature growth technique for nanocrystalline cuprous oxide thin films using microwave plasma oxidation of copper. <i>Materials Letters</i> , 2012 , 71, 160-163	3.3	11
78	Crystalline ZnO/Amorphous ZnO Core/Shell Nanorods: Self-Organized Growth, Structure, and Novel Luminescence. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4848-4855	3.8	11
77	Length versus Radius Relationship for ZnO Nanowires Grown via Vapor Phase Transport. <i>Crystal Growth and Design</i> , 2012 , 12, 5972-5979	3.5	11
76	Dellafoosite CuAlO ₂ film growth and conversion to CuAl ₂ O ₃ metal ceramic composite via control of annealing atmospheres. <i>CrystEngComm</i> , 2013 , 15, 6144	3.3	11
75	Chemical identification of luminescence due to Sn and Sb in ZnO. <i>Applied Physics Letters</i> , 2013 , 102, 192110	3.1	11

74	Carbothermal reduction growth of ZnO nanostructures on sapphire. Comparisons between graphite and activated charcoal powders. <i>Microelectronics Journal</i> , 2009 , 40, 259-261	1.8	11
73	Optical characterisation of thin film benzocyclobutene (BCB) based polymers. <i>Microelectronic Engineering</i> , 1997 , 33, 363-368	2.5	11
72	Electrical characterisation of phosphorus-doped ZnO thin films grown by pulsed laser deposition. <i>Superlattices and Microstructures</i> , 2007 , 42, 74-78	2.8	11
71	The First EU Science Olympiad (EUSO): a model for science education. <i>Journal of Biological Education</i> , 2005 , 39, 58-62	0.9	11
70	High quality interconnected core/shell ZnO nanorod architectures grown by pulsed laser deposition on ZnO-seeded Si substrates. <i>Superlattices and Microstructures</i> , 2017 , 101, 8-14	2.8	10
69	Growth of isotopically enriched ZnO nanorods of excellent optical quality. <i>Journal of Crystal Growth</i> , 2015 , 429, 6-12	1.6	10
68	Control and enhancement of the oxygen storage capacity of ceria films by variation of the deposition gas atmosphere during pulsed DC magnetron sputtering. <i>Journal of Power Sources</i> , 2015 , 279, 94-99	8.9	10
67	Control of ZnO nanowire arrays by nanosphere lithography (NSL) on laser-produced ZnO substrates. <i>Applied Surface Science</i> , 2011 , 257, 5159-5162	6.7	10
66	Effects of the crystallite mosaic spread on integrated peak intensities in 2 θ measurements of highly crystallographically textured ZnO thin films. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 375401	3	10
65	Comparison of structural, optical and electrical properties of undoped ZnO thin films grown on r- and c- Al ₂ O ₃ substrates using pulsed laser deposition. <i>Superlattices and Microstructures</i> , 2005 , 38, 256-264	2.8	10
64	Influence of C ₄ F ₈ /Ar/O ₂ plasma etching on SiO ₂ surface chemistry. <i>Journal of Materials Science: Materials in Electronics</i> , 2005 , 16, 541-547	2.1	10
63	Influence of ZnO nanowire array morphology on field emission characteristics. <i>Nanotechnology</i> , 2014 , 25, 135604	3.4	9
62	Growth of crystalline ZnO nanostructures using pulsed laser deposition. <i>Superlattices and Microstructures</i> , 2006 , 39, 153-161	2.8	9
61	Optical absorption of a Li-related impurity in ZnO. <i>Physica B: Condensed Matter</i> , 2003 , 340-342, 225-229	2.8	9
60	Photoluminescence study of cadmium-related defects in oxygen-rich silicon. <i>Physical Review B</i> , 1996 , 54, 14494-14503	3.3	9
59	Defect-mediated ferromagnetism in ZnO:Mn nanorods. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 115, 313-321	2.6	8
58	Thermodynamic aspects of the gas atmosphere and growth mechanism in carbothermal vapour phase transport synthesis of ZnO nanostructures. <i>Thin Solid Films</i> , 2010 , 518, 4578-4581	2.2	8
57	Study of exciton-polariton modes in nanocrystalline thin films of ZnO using reflectance spectroscopy. <i>Nanotechnology</i> , 2005 , 16, 2625-2632	3.4	8

56	Control of crystal structure, morphology and optical properties of ceria films by post deposition annealing treatments. <i>Thin Solid Films</i> , 2016 , 603, 363-370	2.2	8
55	Hard x-ray photoelectron spectroscopy study of copper formation by metal salt inclusion in a polymer film. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 435301	3	7
54	Optical properties of undoped and oxygen doped CuCl films on silicon substrates. <i>Journal of Materials Science: Materials in Electronics</i> , 2009 , 20, 76-80	2.1	7
53	Radioactive Isotope Identifications of Au and Pt Photoluminescence Centres in Silicon. <i>Physica Status Solidi (B): Basic Research</i> , 1998 , 210, 853-858	1.3	7
52	Morphological control of ZnO nanostructures on silicon substrates. <i>Superlattices and Microstructures</i> , 2007 , 42, 337-342	2.8	7
51	Investigation of optical metastability in GaN using photoluminescence spectroscopy. <i>Physica B: Condensed Matter</i> , 2003 , 340-342, 452-456	2.8	7
50	Evaluation of the optical properties of epitaxial lateral overgrown gallium nitride on sapphire and the role of optically active metastable defects using cathodoluminescence and photoluminescence spectroscopy. <i>Thin Solid Films</i> , 2005 , 473, 308-314	2.2	7
49	Evidence for As lattice location and Ge bound exciton luminescence in ZnO implanted with As73 and Ge73. <i>Physical Review B</i> , 2011 , 83,	3.3	6
48	Splitting of point defect energy levels in wurtzite crystals under uniaxial stresses applied along arbitrary directions. <i>Physical Review B</i> , 2007 , 76,	3.3	6
47	Infrared light emission from GaAs MESFETs operating at avalanche breakdown conditions. <i>Semiconductor Science and Technology</i> , 2004 , 19, S94-S95	1.8	6
46	Exciton-polariton behaviour in bulk and polycrystalline ZnO. <i>Physica B: Condensed Matter</i> , 2003 , 340-342, 230-234	2.8	6
45	Uniaxial stress and Zeeman spectroscopy of the 3.324-eV Ge-related photoluminescence in ZnO. <i>Physical Review B</i> , 2013 , 87,	3.3	5
44	Growth and field emission properties of ZnO nanostructures deposited by a novel pulsed laser ablation source on silicon substrates. <i>Ultramicroscopy</i> , 2009 , 109, 399-402	3.1	5
43	Study of exciton-polariton modes in nanocrystalline thin films of CuCl using reflectance spectroscopy. <i>Journal of Applied Physics</i> , 2012 , 112, 033505	2.5	5
42	Growth and characterisation of epitaxially ordered zinc aluminate domains on c-sapphire. <i>Thin Solid Films</i> , 2008 , 516, 1725-1735	2.2	5
41	Comparative study of the expansion dynamics of Ga ⁺ ions in the laser ablation of Ga and GaN using time-resolved extreme UV absorption spectroscopy. <i>Applied Surface Science</i> , 2000 , 168, 150-153	6.7	5
40	The evolution of point defects in semiconductors studied using the decay of implanted radioactive isotopes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 178, 256-259	1.2	5
39	Precise Definition of a "Monolayer Point" in Polymer Brush Films for Fabricating Highly Coherent TiO Thin Films by Vapor-Phase Infiltration. <i>Langmuir</i> , 2020 , 36, 12394-12402	4	5

38	Pronounced effects of oxygen growth pressure on structure and properties of ZnO and AZO films laser deposited on Zeonor polymer. <i>Thin Solid Films</i> , 2017 , 621, 171-177	2.2	4
37	Surface characterization of poly-2-vinylpyridine-A polymer for area selective deposition techniques. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019 , 37, 050601	2.9	4
36	Spatial inhomogeneity of donor bound exciton emission from ZnO nanostructures grown on Si. <i>Nanotechnology</i> , 2009 , 20, 255703	3.4	4
35	UV emission on a Si substrate: Optical and structural properties of ECuCl on Si grown using liquid phase epitaxy techniques. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 923-926	1.6	4
34	Nitrogen doping of ZnO thin films grown by plasma-assisted pulsed-laser deposition. <i>Journal of Physics: Conference Series</i> , 2007 , 59, 505-509	0.3	4
33	A new science competition for secondary school students: the First European Union Science Olympiad. <i>European Journal of Physics</i> , 2004 , 25, 23-29	0.8	4
32	Uniaxial stress study of the 1026 eV center in Si:Pt. <i>Physical Review B</i> , 2001 , 63,	3.3	4
31	Photoelectrocatalytic Degradation of Methylene Blue Using ZnO Nanorods Fabricated on Silicon Substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 1177-1188	1.3	4
30	Analysing trimethylaluminum infiltration into polymer brushes using a scalable area selective vapor phase process. <i>Materials Advances</i> , 2021 , 2, 769-781	3.3	4
29	Field enhancement of multiphoton induced luminescence processes in ZnO nanorods. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 105306	3	3
28	Origin of the 3.331 eV emission in ZnO nanorods: Comparison of vapour phase transport and pulsed laser deposition grown nanorods. <i>Journal of Luminescence</i> , 2016 , 175, 117-121	3.8	3
27	Enhanced Optical Properties of ZnO and CeO-coated ZnO Nanostructures Achieved Via Spherical Nanoshells Growth On A Polystyrene Template. <i>Scientific Reports</i> , 2017 , 7, 3737	4.9	3
26	ZnO nanorods for efficient third harmonic UV generation: erratum. <i>Optical Materials Express</i> , 2014 , 4, 1243	2.6	3
25	Self-organized ZnAl_2O_4 nanostructures grown on -sapphire. <i>Superlattices and Microstructures</i> , 2007 , 42, 327-332	2.8	3
24	p-type conduction above room temperature in nitrogen-doped ZnO thin film grown by plasma-assisted pulsed laser deposition. <i>Electronics Letters</i> , 2006 , 42, 1181	1.1	3
23	The complexing of oxygen with the Group II impurities Be, Cd and Zn in silicon. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1996 , 36, 116-119	3.1	3
22	Aluminium oxide formation via atomic layer deposition using a polymer brush mediated selective infiltration approach. <i>Applied Surface Science</i> , 2020 , 515, 145987	6.7	2
21	Chemical and electrical characterisation of the segregation of Al from a CuAl alloy (90%:10% wt) with thermal anneal. <i>Thin Solid Films</i> , 2016 , 599, 59-63	2.2	2

20	Comment on "Thermodynamic derivations of the mechanical equilibrium conditions for fluid surfaces: Young's and Laplace's equations," by P. Roura [Am. J. Phys. 73 (12), 1139-1147 (2005)]. <i>American Journal of Physics</i> , 2006 , 74, 937-938	0.7	2
19	P-type nitrogen- and phosphorus-doped ZnO thin films grown by pulsed laser deposition on sapphire substrates 2007 ,		2
18	The 777meV photoluminescence band in Si:Pt. <i>Physica B: Condensed Matter</i> , 1999 , 273-274, 420-423	2.8	2
17	Deep level anomalies in silicon doped with radioactive Au atoms. <i>Physica B: Condensed Matter</i> , 1999 , 273-274, 433-436	2.8	2
16	Local atomic environment of the Cu-related defect in zinc oxide. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 145105	3	1
15	Growth of ¹⁸ O isotopically enriched ZnO nanorods by two novel VPT methods. <i>Journal of Crystal Growth</i> , 2017 , 460, 85-93	1.6	1
14	The Hg isoelectronic defect in ZnO. <i>Journal of Applied Physics</i> , 2013 , 114, 193515	2.5	1
13	A photoluminescence study of a series of closely related axial defects of monoclinic I and rhombic I symmetry in oxygen-rich, zinc-doped silicon. <i>Semiconductor Science and Technology</i> , 1996 , 11, 930-934	1.8	1
12	A note on linking electrical current, magnetic fields, charges and the pole in a barn paradox in special relativity. <i>European Journal of Physics</i> , 2008 , 29, N63-N67	0.8	1
11	Introducing gyroscopes quantitatively without putting students into a spin. <i>European Journal of Physics</i> , 2007 , 28, 479-486	0.8	1
10	Piezo-spectroscopic induced perturbations for defects in cubic crystals under uniaxial stress applied along arbitrary low-symmetry crystal directions. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 7055-7068	1.8	1
9	Crystal Symmetry, Lattice Vibrations, and Optical Spectroscopy of Solids: A Group Theoretical Approach. <i>Contemporary Physics</i> , 2016 , 57, 96-99	3.3	
8	Observation of epitaxially ordered twinned zinc aluminate nanoblades on c-sapphire. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 758-765	2.1	
7	Comparison of Linear and Nonlinear Optical Properties of ZnO Nanorods. <i>Nano-optics and Nanophotonics</i> , 2015 , 193-206	0	
6	Morphological control of ZnO nanostructures grown on silicon 2007 , 6474, 238		
5	Photoluminescence study of GaN grown by pulsed laser deposition in nitrogen atmosphere. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 82, 128-130	3.1	
4	Photoluminescence spectroscopy of an Al-C complex in silicon. <i>Physical Review B</i> , 1999 , 59, 10084-10090	3.3	
3	Study of bound exciton excited state structure using photothermal ionisation spectroscopy. <i>Physica B: Condensed Matter</i> , 1999 , 273-274, 1011-1014	2.8	

- 2 Cadmium–lithium defects in silicon. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1999**, 58, 159-162 3.1
- 1 Imaging semiconductor wafers using photoluminescence. *Optical Engineering*, **1994**, 33, 3974 1.1