

# Tran Viet Cuong

## List of Publications by Year in descending order

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77  
papers

2,754  
citations

279487

23  
h-index

174990

52  
g-index

78  
all docs

78  
docs citations

78  
times ranked

4846  
citing authors

#	ARTICLE	IF	CITATIONS
1	Au Nanoparticles Effect on Inverted ZnO Nanorods/Organic Hybrid Solar Cell Performance. International Journal of Renewable Energy Development, 2022, 11, 165-171.	1.2	1
2	Observation of Whispering Gallery Modes in InGaN/GaN Multi-Quantum Well Microdisks with Ag Plasmonic Nanoparticles on Si Pedestals. Journal of Electronic Materials, 2022, 51, 2054-2061.	1.0	1
3	Hexagonal Boron Nitride Passivation Layer for Improving the Performance and Reliability of InGaN/GaN Light-Emitting Diodes. Applied Sciences (Switzerland), 2021, 11, 9321.	1.3	4
4	Effect of SnO Composition in SnO/SnO <sub>2</sub> Nanocomposites on the Photocatalytic Degradation of Malachite Green under Visible Light. ChemistrySelect, 2021, 6, 12246-12254.	0.7	3
5	Gallium dopant-induced tunable electrical properties of reduced graphene oxide using metal organic chemical vapor deposition. Applied Surface Science, 2020, 504, 144500.	3.1	6
6	Synthesis and Photocatalytic Activity of $\beta$ -Ga <sub>2</sub> O <sub>3</sub> Nanostructures for Decomposition of Formaldehyde under Deep Ultraviolet Irradiation. Catalysts, 2020, 10, 1105.	1.6	7
7	Ammonia Gas Sensing Behavior of Hybridization between Reduced Graphene Oxide and Gold Nanoparticles. Journal of Nanomaterials, 2020, 2020, 1-11.	1.5	3
8	Solution processed graphene quantum dots decorated ZnO nanoflowers for mediating photoluminescence. Applied Surface Science, 2020, 510, 145407.	3.1	10
9	Inserting dome shape microstructure for enhancement of ultraviolet photodetector performance of n-ZnO nanorods/p-Si heterojunction. Journal of Alloys and Compounds, 2020, 823, 153884.	2.8	10
10	Reduced thermal resistance of heat sink using graphene oxide decorated with copper nanoparticles. Materials Research Bulletin, 2019, 110, 76-81.	2.7	7
11	Multidimensional graphene and ZnO-based heterostructure for flexible transparent ultraviolet photodetector. Applied Surface Science, 2019, 481, 524-530.	3.1	32
12	The Facile Synthesis of Novel ZnO Nanostructure for Galactose Biosensor Application. Journal of Nanomaterials, 2019, 2019, 1-8.	1.5	6
13	Ohmic Contact Mechanism for Ni/C-Faced 4H-n-SiC Substrate. Journal of Nanomaterials, 2019, 2019, 1-5.	1.5	3
14	Characteristics of aluminum nitride films on hexagonal boron nitride buffer layers using various growth methods through metal organic chemical vapor deposition. Journal of Crystal Growth, 2019, 507, 316-320.	0.7	6
15	Transparent and flexible ultraviolet photoconductors based on solution-processed graphene quantum dots on reduced graphene oxide films. Materials Research Bulletin, 2017, 91, 49-53.	2.7	14
16	Characterization of Ag-Doped p-Type SnO Thin Films Prepared by DC Magnetron Sputtering. Journal of Nanomaterials, 2017, 2017, 1-6.	1.5	7
17	Nanostructural Effect of ZnO on Light Extraction Efficiency of Near-Ultraviolet Light-Emitting Diodes. Journal of Nanomaterials, 2016, 2016, 1-6.	1.5	11
18	Effect of curved graphene oxide in a GaN light-emitting-diode for improving heat dissipation with a patterned sapphire substrate. Semiconductor Science and Technology, 2016, 31, 085010.	1.0	11

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19	Long-term stability of Si-organic hybrid solar cells with a thermally tunable graphene oxide platform. RSC Advances, 2016, 6, 72342-72350.	1.7	5
20	Effect of characteristic properties of graphene oxide on reduced graphene oxide/Si schottky diodes performance. Materials Science in Semiconductor Processing, 2016, 44, 1-7.	1.9	11
21	Significant reduction of AlN wafer bowing grown on sapphire substrate with patterned graphene oxide. Materials Letters, 2015, 160, 496-499.	1.3	0
22	Solution-Processed rGO/AgNPs/rGO Sandwich Structure as a Hole Extraction Layer for Polymer Solar Cells. Journal of Materials, 2015, 2015, 1-5.	0.1	1
23	Solution-processed multidimensional ZnO/CuO heterojunction as ultraviolet sensing. Optical Materials Express, 2015, 5, 1752.	1.6	20
24	Enhanced optical output power by the silver localized surface plasmon coupling through side facets of micro-hole patterned InGaN/GaN light-emitting diodes. Optics Express, 2014, 22, A1051.	1.7	5
25	Size dependence of silica nanospheres embedded in 385 nm ultraviolet light-emitting diodes on a far-field emission pattern. Optics Express, 2014, 22, A1553.	1.7	0
26	Fabrication and Characteristics of GaN-Based Light-Emitting Diodes with a Reduced Graphene Oxide Current-Spreading Layer. ACS Applied Materials & Interfaces, 2014, 6, 22451-22456.	4.0	15
27	Threading dislocation reduction in epitaxial GaN using V-groove patterned sapphire substrate with embedded silica nanospheres. Materials Letters, 2014, 123, 97-100.	1.3	5
28	Zirconium nitride polycrystalline films grown on Si (111) substrates by metal organic chemical vapor deposition. Materials Letters, 2014, 125, 8-11.	1.3	5
29	Reduced graphene oxide as an over-coating layer on silver nanostructures for detecting NH <sub>3</sub> gas at room temperature. Sensors and Actuators B: Chemical, 2014, 194, 45-50.	4.0	90
30	Stimulated N-doping of reduced graphene oxide on GaN under excimer laser reduction process. Materials Letters, 2014, 116, 412-415.	1.3	13
31	Effect of copper oxide on the resistive switching responses of graphene oxide film. Current Applied Physics, 2014, 14, 1301-1303.	1.1	11
32	Unraveling Oxygen Transfer at the Graphene Oxide-ZnO Nanorod Interface. Journal of Physical Chemistry C, 2014, 118, 17638-17642.	1.5	23
33	Transport and magnetic properties of Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> -Fe <sub>3</sub> O <sub>4</sub> nanocomposite films grown on LaAlO <sub>3</sub> (100) substrates by molecular beam epitaxy. Materials Letters, 2013, 100, 177-179.	1.3	8
34	Improved heat dissipation in gallium nitride light-emitting diodes with embedded graphene oxide pattern. Nature Communications, 2013, 4, 1452.	5.8	177
35	Enhanced Light Extraction Efficiency of GaN-Based LED with ZnO Nanorod Grown on Ga-Doped ZnO Seed Layer. ECS Solid State Letters, 2013, 2, Q43-Q46.	1.4	9
36	Controlled Growth of ZnO Nanomaterials via Hydrothermal Method: Effect of Buffer Layer. Journal of Nanoscience and Nanotechnology, 2012, 12, 3313-3316.	0.9	6

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37	Fast and Simple Reduction of Graphene Oxide in Various Organic Solvents Using Microwave Irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 5658-5662.	0.9	17
38	Novel conductive epoxy composites composed of 2-D chemically reduced graphene and 1-D silver nanowire hybrid fillers. <i>Journal of Materials Chemistry</i> , 2012, 22, 8649.	6.7	92
39	Photocatalytic Performance of a Ag/ZnO/CCG Multidimensional Heterostructure Prepared by a Solution-Based Method. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7180-7184.	1.5	92
40	Synthesis of highly concentrated suspension of chemically converted graphene in organic solvents: Effect of temperature on the extent of reduction and dispersibility. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 680-685.	1.2	30
41	Temperature-dependent photoluminescence from chemically and thermally reduced graphene oxide. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	43
42	Low-voltage solution-processed graphene transistors based on chemically and solvothermally reduced graphene oxide. <i>Journal of Materials Chemistry</i> , 2011, 21, 13068.	6.7	25
43	Superior conductive polystyrene “chemically converted graphene nanocomposite. <i>Journal of Materials Chemistry</i> , 2011, 21, 11312.	6.7	87
44	Synthesis of the chemically converted graphene xerogel with superior electrical conductivity. <i>Chemical Communications</i> , 2011, 47, 9672.	2.2	133
45	Enhanced light output power of near UV light emitting diodes with graphene / indium tin oxide nanodot nodes for transparent and current spreading electrode. <i>Optics Express</i> , 2011, 19, 23111.	1.7	33
46	Chemical functionalization of graphene sheets by solvothermal reduction of a graphene oxide suspension in N-methyl-2-pyrrolidone. <i>Journal of Materials Chemistry</i> , 2011, 21, 3371-3377.	6.7	357
47	Solution-processed semitransparent “graphene oxide: CNT/ZnO heterojunction diodes for visible-blind UV sensors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 943-946.	0.8	21
48	Enhanced photocatalytic activity of graphene oxide decorated on TiO <sub>2</sub> films under UV and visible irradiation. <i>Current Applied Physics</i> , 2011, 11, 805-808.	1.1	119
49	Graphene network on indium tin oxide nanodot nodes for transparent and current spreading electrode in InGaN/GaN light emitting diode. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	47
50	Photoluminescence and Raman studies of graphene thin films prepared by reduction of graphene oxide. <i>Materials Letters</i> , 2010, 64, 399-401.	1.3	176
51	Optoelectronic properties of graphene thin films prepared by thermal reduction of graphene oxide. <i>Materials Letters</i> , 2010, 64, 765-767.	1.3	55
52	Fabrication of TiO <sub>2</sub> nanostructured films by spray deposition with high photocatalytic activity of methylene blue. <i>Materials Letters</i> , 2010, 64, 1387-1390.	1.3	35
53	Solution-processed ZnO-chemically converted graphene gas sensor. <i>Materials Letters</i> , 2010, 64, 2479-2482.	1.3	129
54	Fast and simple fabrication of a large transparent chemically-converted graphene film by spray-coating. <i>Carbon</i> , 2010, 48, 1945-1951.	5.4	302

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55	One-step synthesis of superior dispersion of chemically converted graphene in organic solvents. <i>Chemical Communications</i> , 2010, 46, 4375.	2.2	162
56	A simple hydrothermal preparation of TiO <sub>2</sub> nanomaterials using concentrated hydrochloric acid. <i>Journal of Crystal Growth</i> , 2009, 312, 79-85.	0.7	59
57	Improved Thermal Stability of Green InGaN/GaN Multiple-Quantum-Well Light-Emitting Diodes with an AlGaIn/GaN Short-Superlattice-Inserted Structure. <i>Journal of the Korean Physical Society</i> , 2009, 54, 140-144.	0.3	3
58	Characterization of plasma damage-free InGaN/GaN LED with periodic deflectors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2155-2157.	0.8	0
59	InGaIn/GaN light emitting diode with $\pi$ -plane polygonal facet deflectors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2267-2269.	0.8	0
60	Growth of periodic micropits InGaIn-based LED structure on wet-etch patterned sapphire substrate. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2001-2003.	0.8	0
61	Improved GaN-Based LED Light Extraction Efficiencies via Selective MOCVD Using Peripheral Microhole Arrays. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1284-1286.	1.3	16
62	Spatial distribution of crown shaped light emission from a periodic inverted polygonal deflector embedded in an InGaIn-GaN light emitting diode. <i>Applied Physics Letters</i> , 2008, 92, 061118.	1.5	9
63	Strain-Induced Compositional Fluctuation and V-Defect Formation in Green-InGaIn/GaN Multi-Quantum Wells Grown on Sapphire and Freestanding GaN Substrates. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L372-L375.	0.8	9
64	Fabrication of Mesa-Shaped InGaIn/GaN Light-Emitting Diode with Periodic Deflectors by Selective Metal Organic Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L970-L972.	0.8	1
65	Enhanced light output from aligned micropit InGaIn-based light emitting diodes using wet-etch sapphire patterning. <i>Applied Physics Letters</i> , 2007, 90, 131107.	1.5	93
66	Effect of periodic deflector embedded in InGaIn-GaN light emitting diode. <i>Applied Physics Letters</i> , 2007, 90, .	1.5	36
67	Structural and optical properties of near-UV LEDs grown on V-grooved sapphire substrates fabricated by wet etching. <i>Journal of Crystal Growth</i> , 2007, 298, 699-702.	0.7	4
68	Characterization of chip size effect on thermal-optical properties of GaN-based light emitting diodes. , 2006, 6355, 121.		0
69	Photocurrent measurements on GaAs <sub>1-x</sub> N <sub>x</sub> epilayers grown by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2004, 260, 336-342.	0.7	1
70	Optical property of In <sub>0.2</sub> Ga <sub>0.8</sub> As/GaAs strained multiple quantum-wells grown by using MOCVD. <i>Journal of Crystal Growth</i> , 2004, 268, 59-63.	0.7	2
71	The tri-methyl-Sb flow and the surfactant time effect on InGaAsN/GaAs-strained MQWs grown by MOCVD. <i>Journal of Crystal Growth</i> , 2004, 270, 340-345.	0.7	3
72	Effect of interlayer on optical properties of InGaAsN/GaAs quantum well grown by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2004, 271, 348-352.	0.7	0

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73	Suppression of cracks and V-shaped defects, and improvement of reflectivity of GaN/AlGaIn distributed Bragg reflectors by insertion of multiple interlayers. <i>Physica Status Solidi A</i> , 2004, 201, 2799-2802.	1.7	5
74	Calculation of the external quantum efficiency of light emitting diodes with different chip designs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 2433-2437.	0.8	3
75	Influence of Sb doping on In <sub>0.2</sub> Ga <sub>0.8</sub> As <sub>0.98</sub> N <sub>0.02</sub> /GaAs strained multiquantum wells grown by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2004, 263, 156-160.	0.7	1
76	Influence of annealing and surfactant on InGaAsN/GaAs multiple quantum well. <i>Journal of Crystal Growth</i> , 2004, 267, 412-416.	0.7	4
77	Influence of Sb surfactant on the structural and optical properties of InGaAsN/GaAs multi-quantum wells grown by metalorganic chemical vapor deposition. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 2761-2764.	0.8	4