

Tetsuo Soga

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519
papers

8,053
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44
h-index

65
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583
ext. papers

9,091
ext. citations

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avg, IF

5.77
L-index

#	Paper	IF	Citations
519	Efficient Solar Water Splitting, Exemplified by RuO ₂ -Catalyzed AlGaAs/Si Photoelectrolysis. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8920-8924	3.4	323
518	Optical properties of wurtzite structure GaN on sapphire around fundamental absorption edge (0.784.77 eV) by spectroscopic ellipsometry and the optical transmission method. <i>Applied Physics Letters</i> , 1997 , 70, 3209-3211	3.4	225
517	Optical properties and X-ray photoelectron spectroscopic study of pure and Pb-doped TiO ₂ thin films. <i>Journal of Physics and Chemistry of Solids</i> , 1999 , 60, 201-210	3.9	188
516	Thermal stability of GaN on (111) Si substrate. <i>Journal of Crystal Growth</i> , 1998 , 189-190, 178-182	1.6	151
515	Over 18% solar energy conversion to generation of hydrogen fuel; theory and experiment for efficient solar water splitting. <i>International Journal of Hydrogen Energy</i> , 2001 , 26, 653-659	6.7	151
514	Rare Earth Doped Zinc Oxide Nanophosphor Powder: A Future Material for Solid State Lighting and Solar Cells. <i>ACS Photonics</i> , 2017 , 4, 2613-2637	6.3	131
513	Gas separation properties of functionalized carbon nanotubes mixed matrix membranes. <i>Separation and Purification Technology</i> , 2011 , 78, 208-213	8.3	118
512	Characterization of transparent conducting CuI thin films prepared by pulse laser deposition technique. <i>Chemical Physics Letters</i> , 2002 , 366, 485-489	2.5	90
511	Structural and optical properties of diamond and nano-diamond films grown by microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2001 , 10, 561-567	3.5	90
510	Characterization of epitaxially grown GaAs on Si substrates with III-V compounds intermediate layers by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , 1985 , 57, 4578-4582	2.5	84
509	Intrinsic ferromagnetism and magnetic anisotropy in Gd-doped ZnO thin films synthesized by pulsed spray pyrolysis method. <i>Journal of Applied Physics</i> , 2010 , 108, 053904	2.5	81
508	Growth of vertically aligned carbon nanotubes on silicon and quartz substrate by spray pyrolysis of a natural precursor: Turpentine oil. <i>Chemical Physics Letters</i> , 2005 , 414, 6-10	2.5	81
507	Room-temperature laser operation of AlGaAs/GaAs double heterostructures fabricated on Si substrates by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 1986 , 48, 413-414	3.4	81
506	MOCVD growth of GaAs on Si substrates with AlGaP and strained superlattice layers. <i>Electronics Letters</i> , 1984 , 20, 916	1.1	81
505	Carbon nanotubes by spray pyrolysis of turpentine oil at different temperatures and their studies. <i>Microporous and Mesoporous Materials</i> , 2006 , 96, 184-190	5.3	78
504	Photovoltaic and spectral photoresponse characteristics of n-C/p-C solar cell on a p-silicon substrate. <i>Applied Physics Letters</i> , 2000 , 77, 1472-1474	3.4	74
503	Epitaxial growth and material properties of GaAs on Si grown by MOCVD. <i>Journal of Crystal Growth</i> , 1986 , 77, 498-502	1.6	71

502	A simple method of producing single-walled carbon nanotubes from a natural precursor: Eucalyptus oil. <i>Materials Letters</i> , 2007 , 61, 3768-3770	3.3	69
501	Raman spectra of ion beam sputtered amorphous carbon thin films deposited from camphoric carbon. <i>Carbon</i> , 2000 , 38, 127-131	10.4	66
500	Biased enhanced growth of nanocrystalline diamond films by microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2000 , 9, 1331-1335	3.5	64
499	High efficiency AlGaAs/Si monolithic tandem solar cell grown by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , 1995 , 78, 4196-4199	2.5	62
498	High-Quality GaN on Si Substrate Using AlGaN/AlN Intermediate Layer. <i>Physica Status Solidi A</i> , 1999 , 176, 599-603		61
497	Refractive index and degree of inhomogeneity of nanocrystalline TiO ₂ thin films: Effects of substrate and annealing temperature. <i>Journal of Applied Physics</i> , 2000 , 88, 4634	2.5	60
496	Silicon nanowire array/polymer hybrid solar cell incorporating carbon nanotubes. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 115104	3	57
495	Determination of Optical Constants of Solgel-Derived Inhomogeneous TiO ₂ Thin Films by Spectroscopic Ellipsometry and Transmission Spectroscopy. <i>Applied Optics</i> , 1998 , 37, 691-7	1.7	57
494	Investigations on the structural, optical and electronic properties of Nd doped ZnO thin films. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 105410	3	55
493	Optical properties of Al _x Ga _{1-x} N/GaN heterostructures on sapphire by spectroscopic ellipsometry. <i>Applied Physics Letters</i> , 1998 , 72, 2202-2204	3.4	55
492	MOCVD growth of high efficiency current-matched tandem solar cell. <i>Journal of Crystal Growth</i> , 1997 , 174, 579-584	1.6	54
491	Post-growth annealing of zinc oxide thin films pulsed laser deposited under enhanced oxygen pressure on quartz and silicon substrates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 127, 150-153	3.1	54
490	Growth of nanocrystalline diamond films by biased enhanced microwave plasma chemical vapor deposition: A different regime of growth. <i>Applied Physics Letters</i> , 2000 , 77, 4304-4306	3.4	54
489	Optical Absorption and Electrical Conductivity of Amorphous Carbon Thin Films from Camphor: A Natural Source. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 658-663	1.4	52
488	Improving photovoltaic properties by incorporating both single walled carbon nanotubes and functionalized multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2009 , 94, 093509	3.4	51
487	Growth of nanocrystalline diamond films by biased enhanced microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2001 , 10, 1592-1596	3.5	50
486	Influence of annealing temperature on structural and optical properties of nanocrystalline Platinum octaethylporphyrin (PtOEP) thin films. <i>Optical Materials</i> , 2015 , 49, 271-278	3.3	49
485	Photovoltaic solar cell from camphoric carbon A natural source. <i>Solar Energy Materials and Solar Cells</i> , 1997 , 48, 25-33	6.4	49

484	Direct evidence for self-annihilation of antiphase domains in GaAs/Si heterostructures. <i>Applied Physics Letters</i> , 1989 , 55, 445-447	3.4	48
483	AlGaAs/GaAs DH Lasers on Si Substrates Grown Using Super Lattice Buffer Layers by MOCVD. <i>Japanese Journal of Applied Physics</i> , 1985 , 24, L666-L668	1.4	48
482	Spectroscopic properties of nitrogen doped hydrogenated amorphous carbon films grown by radio frequency plasma-enhanced chemical vapor deposition. <i>Journal of Applied Physics</i> , 2001 , 89, 7924-7931	2.5	47
481	Low-threshold continuous-wave room-temperature operation of Al _x Ga _{1-x} As/GaAs single quantum well lasers grown by metalorganic chemical vapor deposition on Si substrates with SiO ₂ back coating. <i>Applied Physics Letters</i> , 1990 , 57, 1179-1181	3.4	47
480	Synthesis of Iron Oxide Nanoparticles by Using Eucalyptus Globulus Plant Extract. <i>E-Journal of Surface Science and Nanotechnology</i> , 2014 , 12, 363-367	0.7	46
479	Characterization of Phosphorus-Doped Amorphous Carbon and Construction of n-Carbon/p-Silicon Heterojunction Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 2339-2344	1.4	46
478	Investigation of the effect of sol processing parameters on the photoelectrical properties of dye-sensitized TiO ₂ solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2001 , 65, 171-177	6.4	46
477	The infrared optical functions of Al _x Ga _{1-x} N determined by reflectance spectroscopy. <i>Applied Physics Letters</i> , 1998 , 73, 1472-1474	3.4	46
476	A photovoltaic cell from p-type boron-doped amorphous carbon film. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 77, 105-112	6.4	45
475	Photovoltaic characteristics of boron-doped hydrogenated amorphous carbon on n-Si substrate prepared by r.f. plasma-enhanced CVD using trimethylboron. <i>Diamond and Related Materials</i> , 2003 , 12, 687-690	3.5	44
474	Simplified synthesis of single-walled carbon nanotubes from a botanical hydrocarbon: Turpentine oil. <i>Journal of Alloys and Compounds</i> , 2008 , 462, 289-293	5.7	42
473	Mechanical properties of the GaN thin films deposited on sapphire substrate. <i>Journal of Crystal Growth</i> , 1998 , 189-190, 701-705	1.6	41
472	Hydrogen storage by carbon materials synthesized from oil seeds and fibrous plant materials. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 4238-4249	6.7	41
471	Characterization of CuI thin films prepared by different techniques. <i>Materials Chemistry and Physics</i> , 2003 , 80, 461-465	4.4	41
470	Fullerene (C ₆₀) decoration in oxygen plasma treated multiwalled carbon nanotubes for photovoltaic application. <i>Applied Physics Letters</i> , 2008 , 92, 063508	3.4	40
469	High-Efficiency Monolithic Three-Terminal GaAs/Si Tandem Solar Cells Fabricated by Metalorganic Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, 1401-1404	1.4	38
468	Functionalization of multi-walled carbon nanotubes (MWCNTs) with nitrogen plasma for photovoltaic device application. <i>Current Applied Physics</i> , 2009 , 9, 346-351	2.6	37
467	Cross-sectional characterization of cupric oxide nanowires grown by thermal oxidation of copper foils. <i>Applied Surface Science</i> , 2010 , 257, 62-66	6.7	37

466	Low etch pit density GaAs on Si grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 1990 , 56, 1433-1435	3.4	37
465	ZnO based quantum dot sensitized solar cell using CdS quantum dots. <i>Journal of Renewable and Sustainable Energy</i> , 2012 , 4, 013110	2.5	36
464	Polarized Reflectance Spectroscopy and Spectroscopic Ellipsometry Determination of the Optical Anisotropy of Gallium nitride on Sapphire. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, L1029-L1031	1.4	36
463	Effect of rf power on the photovoltaic properties of boron-doped amorphous carbon/n-type silicon junction fabricated by plasma enhanced chemical vapor deposition. <i>Thin Solid Films</i> , 2005 , 482, 86-89	2.2	36
462	Light invariant, efficient, multiple band gap AlGaAs/Si/metal hydride solar cell. <i>Applied Physics Letters</i> , 1999 , 74, 4055-4057	3.4	36
461	Solar cells based on carbon thin films. <i>Solar Energy Materials and Solar Cells</i> , 2001 , 65, 163-170	6.4	35
460	Vertically aligned N-doped carbon nanotubes by spray pyrolysis of turpentine oil and pyridine derivative with dissolved ferrocene. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 4101-4106	3.9	34
459	Charge Generation in a Dye-Sensitized Solid-State Cell under Different Modes of Illumination. <i>Journal of Solid State Chemistry</i> , 2002 , 166, 142-147	3.3	34
458	A phosphorous doped (n-type) carbon/boron doped (p-type) silicon photovoltaic solar cell from a natural source. <i>Carbon</i> , 1999 , 37, 531-533	10.4	34
457	Structural and optical properties of nanocrystalline platinum octaethylporphyrin (PtOEP) thin films. <i>Journal of Alloys and Compounds</i> , 2016 , 655, 415-422	5.7	33
456	Towards high performance perovskite solar cells: A review of morphological control and HTM development. <i>Applied Materials Today</i> , 2018 , 13, 69-82	6.6	33
455	Boron doped amorphous carbon thin films grown by r.f. PECVD under different partial pressure. <i>Diamond and Related Materials</i> , 2005 , 14, 1799-1804	3.5	33
454	COPPER IODIDE THIN FILMS AS A p-TYPE ELECTRICAL CONDUCTIVITY IN DYE-SENSITIZED p-CuI Dye n-TiO ₂ HETEROJUNCTION SOLID STATE SOLAR CELLS. <i>Surface Review and Letters</i> , 2004 , 11, 577-583	1.1	33
453	Improvement in light harvesting and performance of P3HT:PCBM solar cell by using 9,10-diphenylanthracene. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 1582-1586	6.4	32
452	Fluorination of multi-walled carbon nanotubes (MWNTs) via surface wave microwave (SW-MW) plasma treatment. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 41, 299-303	3	32
451	Formation and characterization of polymer/fullerene bulk heterojunction solar cells. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 1276-1279	3.9	32
450	Synthesis and spectroscopic investigation of trifluoroethoxy-coated phthalocyanine linked with fullerene. <i>Journal of Fluorine Chemistry</i> , 2009 , 130, 361-364	2.1	31
449	Identification of various luminescence centers in CuI films by cathodoluminescence technique. <i>Journal of Luminescence</i> , 2003 , 105, 105-109	3.8	31

448	High compressive stress in nanocrystalline diamond films grown by microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 2001 , 10, 352-357	3.5	31
447	Effect of Fe-doping on the structural, morphological and optical properties of ZnO nanoparticles synthesized by solution combustion process. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 71, 109-116	3	30
446	Optical properties of nanocrystalline diamond films by prism coupling technique. <i>Journal of Applied Physics</i> , 2003 , 93, 101-105	2.5	30
445	Cutting carbon nanotubes for solar cell application. <i>Applied Physics Letters</i> , 2008 , 92, 123508	3.4	29
444	Thin cuprous oxide films prepared by thermal oxidation of copper foils with water vapor. <i>Thin Solid Films</i> , 2012 , 520, 2679-2682	2.2	28
443	Transfer-free graphene synthesis on insulating substrates via agglomeration phenomena of catalytic nickel films. <i>Applied Physics Letters</i> , 2013 , 103, 082112	3.4	28
442	An approach for utilization of organic polymer as a sensitizer in solid-state cells. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 77, 15-24	6.4	28
441	Optical and structural properties of nitrogen doped amorphous carbon films grown by rf plasma-enhanced CVD. <i>Diamond and Related Materials</i> , 2001 , 10, 1002-1006	3.5	28
440	Stress and Strain of GaAs on Si Grown by MOCVD Using Strained Superlattice Intermediate Layers and a Two-Step Growth Method. <i>Japanese Journal of Applied Physics</i> , 1987 , 26, L536-L538	1.4	28
439	Quality improvement of metalorganic chemical vapor deposition grown GaP on Si by AsH ₃ preflow. <i>Applied Physics Letters</i> , 1988 , 53, 862-864	3.4	28
438	Coating of green-synthesized silver nanoparticles on cotton fabric 2017 , 14, 735-745		27
437	Magnetic anisotropy in nanocrystalline Co-doped ZnO thin films. <i>Chemical Physics Letters</i> , 2010 , 487, 97-100	2.5	27
436	Porous GaAs formed by a two-step anodization process. <i>Journal of Crystal Growth</i> , 1997 , 179, 661-664	1.6	27
435	Influence of Structure and C ₆₀ Composition on Properties of Blends and Bilayers of Organic Donor-Acceptor Polymer/C ₆₀ Photovoltaic Devices. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 1296-1300	1.4	27
434	Nitrogen doping and structural properties of amorphous carbon films deposited by pulsed laser ablation. <i>Applied Surface Science</i> , 2002 , 197-198, 542-546	6.7	27
433	Photoelectrical properties of pulsed laser deposited boron doped p-carbon/n-silicon and phosphorus doped n-carbon/p-silicon heterojunction solar cells. <i>Solar Energy</i> , 2005 , 78, 406-415	6.8	27
432	Effect of Radio Frequency Power on the Properties of Hydrogenated Amorphous Carbon Films Grown by Radio Frequency Plasma-Enhanced Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 4088-4093	1.4	27
431	MOCVD growth and characterization of GaAs and GaP grown on Si substrates. <i>Journal of Crystal Growth</i> , 1988 , 93, 499-503	1.6	27

430	Carbon photovoltaic cell. <i>Carbon</i> , 1997 , 35, 863-864	10.4	26
429	Study on the properties and charge generation in dye-sensitized n-TiO ₂ dye p-CuI solid state photovoltaic solar cells. <i>Applied Surface Science</i> , 2006 , 252, 7389-7396	6.7	26
428	Fabrication of a solid-state cell using vitamin C as sensitizer. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 80, 383-389	6.4	26
427	Observation of microwave conductivity in copper iodide films and relay effect in the dye molecules attached to CuI photocathode. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 3010-3013	3.3	26
426	Characterization of Antiphase Domain in GaP on Misoriented (001) Si Substrate Grown by Metalorganic Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 1993 , 32, 4912-4915	1.4	26
425	Efficiency improvement in dye sensitized solar cells by the plasmonic effect of green synthesized silver nanoparticles. <i>Journal of Science: Advanced Materials and Devices</i> , 2017 , 2, 418-424	4.2	25
424	Optical properties of Pb doped TiO ₂ nanocrystalline thin films: A photoluminescence spectroscopic study. <i>Applied Surface Science</i> , 1997 , 113-114, 149-154	6.7	25
423	Phosphorus doping and defect studies of diamond-like carbon films by pulsed laser deposition using camphoric carbon target. <i>Diamond and Related Materials</i> , 2001 , 10, 984-988	3.5	25
422	Electrical conductivity improvement by iodine doping for diamond-like carbon thin-films deposited by microwave surface wave plasma CVD. <i>Diamond and Related Materials</i> , 2006 , 15, 645-648	3.5	24
421	Strong adhesion in nanocrystalline diamond films on silicon substrates. <i>Journal of Applied Physics</i> , 2001 , 89, 4874-4878	2.5	24
420	Deep Levels in GaAs Grown Using Superlattice Intermediate Layers on Si Substrates by MOCVD. <i>Japanese Journal of Applied Physics</i> , 1986 , 25, 1510-1513	1.4	24
419	Low density of defect states in hydrogenated amorphous carbon thin films grown by plasma-enhanced chemical vapor deposition. <i>Applied Physics Letters</i> , 2001 , 78, 294-296	3.4	23
418	Structural and optical properties of graphene from green carbon source via thermal chemical vapor deposition. <i>Journal of Materials Research</i> , 2016 , 31, 1947-1956	2.5	23
417	Qualitative and quantitative analysis of intercalated and exfoliated silicate layers in asymmetric polyethersulfone/cloisite15A mixed matrix membrane for CO ₂ /CH ₄ separation. <i>Chemical Engineering Journal</i> , 2015 , 268, 371-383	14.7	22
416	The contribution of coumarin 6 in light harvesting and photocurrent of P3HT:PCBM bulk heterojunction solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 1406-1411	6.4	22
415	Preparation and microstructure properties of tetrahedral amorphous carbon films by pulsed laser deposition using camphoric carbon target. <i>Diamond and Related Materials</i> , 2004 , 13, 2174-2179	3.5	22
414	Camphoric carbon soot: a new target for deposition of diamond-like carbon films by pulsed laser ablation. <i>Thin Solid Films</i> , 2000 , 376, 1-4	2.2	22
413	Metamorphosis of strain/stress on optical band gap energy of ZAO thin films via manipulation of thermal annealing process. <i>Journal of Luminescence</i> , 2015 , 160, 165-175	3.8	21

4 ¹²	Structural and optical studies of pure and Ni-doped ZnO nanoparticles synthesized by simple solution combustion method. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FB16	1.4	21
4 ¹¹	Synthesis of single walled carbon nanotubes by ultrasonic spray pyrolysis method. <i>Diamond and Related Materials</i> , 2009 , 18, 319-323	3.5	21
4 ¹⁰	Bulk heterojunction solar cells based on two kinds of organic polymers and fullerene derivative. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 313-314, 422-425	5.1	21
4 ⁰⁹	Boron-Incorporated Amorphous Carbon Films Deposited by Pulsed Laser Deposition. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, L970-L973	1.4	21
4 ⁰⁸	Diamond-like carbon by pulsed laser deposition from a camphoric carbon target: effect of phosphorus incorporation. <i>Diamond and Related Materials</i> , 2001 , 10, 1839-1842	3.5	21
4 ⁰⁷	Effects of H Plasma Passivation on the Optical and Electrical Properties of GaAs-on-Si. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, L1280-L1282	1.4	21
4 ⁰⁶	Initial stage of GaPSi heteroepitaxial growth by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 1996 , 163, 165-170	1.6	21
4 ⁰⁵	Heteroepitaxial technologies on Si for high-efficiency solar cells. <i>Solar Energy Materials and Solar Cells</i> , 1998 , 50, 203-212	6.4	20
4 ⁰⁴	Fabrication of GaAs/Si Tandem Solar Cell by Epitaxial Lift-Off Technique. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L1419-L1421	1.4	20
4 ⁰³	Photovoltaic properties of an Al _x Ga _{1-x} As solar cell (x=0.22) grown on Si substrate by metalorganic chemical vapor deposition and thermal cycle annealing. <i>Journal of Applied Physics</i> , 1996 , 79, 9375-9378	2.5	20
4 ⁰²	Enhanced photovoltaic device performance upon modification of indium tin oxide coated glass by liquid nitrogen treatment. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 042002	3	19
4 ⁰¹	Effect of sulfur concentration on the morphology of carbon nanofibers produced from a botanical hydrocarbon. <i>Nanoscale Research Letters</i> , 2008 , 3, 242-8	5	19
4 ⁰⁰	Field emission property of N-doped aligned carbon nanotubes grown by pyrolysis of monoethanolamine. <i>Solid State Communications</i> , 2008 , 147, 15-19	1.6	19
399	Corn-shape carbon nanofibers with dense graphite synthesized by microwave plasma-enhanced chemical vapor deposition. <i>Applied Physics Letters</i> , 2004 , 84, 2886-2888	3.4	19
398	Growth mechanism of GaP on Si substrate by MOVPE. <i>Journal of Crystal Growth</i> , 1991 , 115, 158-163	1.6	19
397	Thickness-controlled synthesis of vertically aligned c-axis oriented ZnO nanorod arrays: Effect of growth time via novel dual sonication sol-gel process. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 01AE13	1.4	18
396	Photovoltaic properties of n-C:P/p-Si cells deposited by XeCl excimer laser using graphite target. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 3205-3213	6.4	18
395	Multiple-Bandgap Photoelectrochemistry: Bipolar Semiconductor Ohmic Regenerative Electrochemistry. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 2536-2545	3.4	18

394	High-quality GaAs on Si substrate by the epitaxial lift-off technique using SeS ₂ . <i>Applied Physics Letters</i> , 1999 , 75, 3826-3828	3.4	18
393	Dislocation generation mechanisms for GaP on Si grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 1993 , 63, 2543-2545	3.4	18
392	. <i>IEEE Journal of Quantum Electronics</i> , 1991 , 27, 1798-1803	2	18
391	Solid Composition and Growth Rate of Ga _{1-x} Al _x As Grown Epitaxially by MOCVD. <i>Japanese Journal of Applied Physics</i> , 1983 , 22, 1357-1360	1.4	18
390	Fabrication of vertically aligned carbon nanotubes/zinc oxide nanocomposites and their field electron emission enhancement. <i>Materials and Design</i> , 2016 , 90, 185-195	8.1	17
389	Optical and structural properties of amorphous carbon thin films deposited by microwave surface-wave plasma CVD. <i>Diamond and Related Materials</i> , 2006 , 15, 188-192	3.5	17
388	Preparation and characterization of boron-incorporated amorphous carbon films from a natural source of camphoric carbon as a precursor material. <i>Applied Surface Science</i> , 2005 , 252, 1693-1703	6.7	17
387	EFFECT OF SUBSTRATE TEMPERATURE ON GROWTH OF NITROGEN INCORPORATED CAMPHORIC CARBON FILMS BY PULSED LASER ABLATION. <i>International Journal of Modern Physics B</i> , 2002 , 16, 866-870	7.1	17
386	Room-Temperature CW Operation of AlGaAs/GaAs SQW Lasers on Si Substrates by MOCVD Using AlGaAs/AlGaP Intermediate Layers. <i>Japanese Journal of Applied Physics</i> , 1990 , 29, L1133-L1135	1.4	17
385	Alternating current characterization of nano-Pt(II) octaethylporphyrin (PtOEP) thin film as a new organic semiconductor. <i>Chinese Physics B</i> , 2016 , 25, 067201	1.2	16
384	Structural, morphological and optical studies of Ag-doped ZnO nanoparticles synthesized by simple solution combustion method. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 11RF01	1.4	16
383	Synthesis of nitrogen-doped graphene by the thermal chemical vapor deposition method from a single liquid precursor. <i>Materials Letters</i> , 2014 , 117, 199-203	3.3	16
382	Growth of Y-junction bamboo-shaped CN _x nanotubes on GaAs substrate using single feedstock. <i>Applied Surface Science</i> , 2009 , 255, 4611-4615	6.7	16
381	A facile approach to hexagonal ZnO nanorod assembly. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 49, 1-5	2.3	16
380	Bamboo-shaped aligned CN _x nanotubes synthesized using single feedstock at different temperatures and study of their field electron emission. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 155405	3.4	16
379	Synthesis of nitrogen incorporated diamond-like carbon thin films using microwave surface-wave plasma CVD. <i>Diamond and Related Materials</i> , 2005 , 14, 1824-1827	3.5	16
378	Precursors for CVD growth of nanocrystalline diamond. <i>Physics of the Solid State</i> , 2004 , 46, 720-725	0.8	16
377	The a-C:H/p-Si solar cell deposited by pulsed laser deposition. <i>Journal of Non-Crystalline Solids</i> , 2004 , 336, 32-36	3.9	16

- 376 AMORPHOUS CARBON THIN FILMS FOR OPTOELECTRIC DEVICE APPLICATION. *International Journal of Modern Physics B*, **2000**, 14, 206-217 1.1 16
- 375 Initial stage of epitaxial growth at the high temperature of GaAs and AlGaAs on Si by metalorganic chemical vapor deposition. *Applied Physics Letters*, **1991**, 58, 1170-1172 3.4 16
- 374 Transmission electron microscopy characterization of the initial stage of epitaxial growth of GaP on Si by low-pressure metalorganic chemical vapor deposition. *Applied Physics Letters*, **1991**, 58, 2108-2110 3.4 16
- 373 Tilt Deformation of Metalorganic Chemical Vapor Deposition Grown GaP on Si Substrate. *Japanese Journal of Applied Physics*, **1992**, 31, 2079-2084 1.4 16
- 372 Defect Characterization of GaAs on Si Grown by MOCVD. *Japanese Journal of Applied Physics*, **1989**, 28, 2441-2445 1.4 16
- 371 Mechanism of MOCVD Growth for GaAs and AlAs. *Japanese Journal of Applied Physics*, **1984**, 23, 709-713 1.4 16
- 370 Synthesis of carbon nanofibres from waste chicken fat for field electron emission applications. *Materials Research Bulletin*, **2015**, 70, 524-529 5.1 15
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