

Daisuke Nakamura

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6131952/daisuke-nakamura-publications-by-year.pdf>

Version: 2024-04-28

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.

32
papers

735
citations

10
h-index

27
g-index

36
ext. papers

833
ext. citations

4.2
avg, IF

4.11
L-index

#	Paper	IF	Citations
32	Mechanism and enhancement of anti-parasitic-reaction catalytic activity of tungsten-carbide-coated graphite components for the growth of bulk GaN crystals. <i>Applied Physics Express</i> , 2022 , 15, 045501	2.4	1
31	Tungsten carbide layers deposited on graphite substrates via a wet powder process as anti-parasitic-reaction coatings for reactor components in GaN growth. <i>CrystEngComm</i> , 2020 , 22, 2632-2641	2.4	1
30	Growth of high-quality GaN by halogen-free vapor phase epitaxy. <i>Applied Physics Express</i> , 2020 , 13, 085509	2.4	2
29	Transformation of hollow-core screw dislocations: transitional configuration of superscrew dislocations. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 095502	1.4	2
28	Resistive heater element made of highly durable TaC-coated graphite for high-temperature and highly corrosive processes: application to MOCVD GaN epitaxial growth. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 075509	1.4	4
27	Hansen Solubility Parameters of Stacked Silicanes Derived from Porous Silicon. <i>ACS Omega</i> , 2019 , 4, 11838-11843	3.9	4
26	Self-Assembled Single-Crystalline GaN Having a Bimodal Meso/Macropore Structure To Enhance Photoabsorption and Photocatalytic Reactions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4233-4241	9.5	9
25	Macro-defect-free homoepitaxial GaN growth through halogen-free vapor-phase epitaxy on native GaN seeds. <i>Journal of Crystal Growth</i> , 2018 , 494, 17-25	1.6	10
24	Liquid-Phase Exfoliation of Germanane Based on Hansen Solubility Parameters. <i>Chemistry of Materials</i> , 2018 , 30, 5333-5338	9.6	23
23	Porosity-controlled multilayer TaC coatings prepared via wet powder process for multi-functional reactor components in GaN crystal growth system. <i>Ceramics International</i> , 2018 , 44, 21284-21288	5.1	5
22	Ultrahigh-yield growth of GaN via halogen-free vapor-phase epitaxy. <i>Applied Physics Express</i> , 2018 , 11, 065502	2.4	7
21	Nontoxic organic solvents identified using an a priori approach with Hansen solubility parameters. <i>Chemical Communications</i> , 2017 , 53, 4096-4099	5.8	10
20	TaC-coated graphite prepared via a wet ceramic process: Application to CVD susceptors for epitaxial growth of wide-bandgap semiconductors. <i>Journal of Crystal Growth</i> , 2017 , 478, 163-173	1.6	12
19	Significant increase in GaN growth rate by halogen-free vapor phase epitaxy with porosity-controlled evaporator. <i>Applied Physics Express</i> , 2017 , 10, 095503	2.4	6
18	Origin and effective reduction of inversion domains in aluminum nitride grown by a sublimation method. <i>Journal of Crystal Growth</i> , 2017 , 478, 33-41	1.6	3
17	Tantalum carbide coating via wet powder process: From slurry design to practical process tests. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 1175-1185	6	18
16	Halogen-free vapor phase epitaxy for high-rate growth of GaN bulk crystals. <i>Applied Physics Express</i> , 2017 , 10, 045504	2.4	10

15	Fabrication of large-sized TaC-coated carbon crucibles for the low-cost sublimation growth of large-diameter bulk SiC crystals. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 085504	1.4	7
14	Simple and quick enhancement of SiC bulk crystal growth using a newly developed crucible material. <i>Applied Physics Express</i> , 2016 , 9, 055507	2.4	14
13	Nanopipe formation as a result of boron impurity segregation in gallium nitride grown by halogen-free vapor phase epitaxy. <i>Journal of Applied Physics</i> , 2016 , 120, 245703	2.5	12
12	Sintered tantalum carbide coatings on graphite substrates: Highly reliable protective coatings for bulk and epitaxial growth. <i>Applied Physics Letters</i> , 2015 , 106, 082108	3.4	22
11	Direct determination of Burgers vector sense and magnitude of elementary dislocations by synchrotron white x-ray topography. <i>Journal of Applied Physics</i> , 2008 , 103, 013510	2.5	9
10	Topographic study of dislocation structure in hexagonal SiC single crystals with low dislocation density. <i>Journal of Crystal Growth</i> , 2007 , 304, 57-63	1.6	35
9	Investigation of carrier lifetime in 4H-SiC epilayers and lifetime control by electron irradiation. <i>Applied Physics Letters</i> , 2007 , 90, 202109	3.4	158
8	Synchrotron X-ray Topographic Analysis of Dislocation Structures in Bulk SiC Single Crystal. <i>Materials Science Forum</i> , 2006 , 527-529, 407-410	0.4	
7	Reduction of Dislocations in the Bulk Growth of SiC Crystals. <i>Materials Science Forum</i> , 2006 , 527-529, 3-8	0.4	9
6	Ultra-high-quality single crystals of silicon carbide by alternate repetition of growth perpendicular to c-axis. <i>Microelectronic Engineering</i> , 2006 , 83, 139-141	2.5	2
5	Ultra-high-quality silicon carbide single crystals. <i>Nature</i> , 2004 , 430, 1009-12	50.4	307
4	Impact of SiC Structural Defects on the Degradation Phenomenon of Bipolar SiC Devices. <i>Materials Science Forum</i> , 2003 , 433-436, 917-920	0.4	8
3	Local atomic arrangement of Pb and Sn on the Si(111)-(Pb,Sn) surface. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002 , 96, 145-149	3.1	9
2	Self-Healing Phenomenon of Micropipes in Silicon Carbide. <i>Materials Science Forum</i> , 2002 , 389-393, 103-106	1.6	8
1	Self-recovery of monolayer Pb adsorbates on the Si(111)-1 \times 1-Pb surface under ion irradiation at room temperature. <i>Surface Science</i> , 1999 , 425, 174-179	1.8	9