

Larry Halliburton

List of Publications by Year in descending order

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76
papers

2,190
citations

279798

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#	ARTICLE	IF	CITATIONS
1	Cu ²⁺ and Cu ³⁺ acceptors in $\hat{\Gamma}^2$ -Ga ₂ O ₃ crystals: A magnetic resonance and optical absorption study. Journal of Applied Physics, 2022, 131, .	2.5	8
2	Persistent Room-Temperature Photodarkening in Cu-Doped $\hat{\Gamma}^2$ -Ga ₂ O ₃ Crystals. Physical Review Letters, 2022, 128, 077402.	2.5	1
3	Electron traps in Ag-doped Li ₂ B ₄ O ₇ crystals: The role of Ag interstitial ions. Journal of Applied Physics, 2022, 131, 175106.	2.5	3
4	Photoinduced trapping of charge at sulfur vacancies and copper ions in photorefractive Sn ₂ P ₂ S ₆ crystals. Journal of Applied Physics, 2021, 129, 085702.	2.5	3
5	Zn acceptors in $\hat{\Gamma}^2$ -Ga ₂ O ₃ crystals. Journal of Applied Physics, 2021, 129, .	2.5	22
6	Optically active selenium vacancies in BaGa ₄ Se ₇ crystals. Journal of Applied Physics, 2021, 130, 173104.	2.5	1
7	Charge trapping by iodine ions in photorefractive Sn ₂ P ₂ S ₆ crystals. Journal of Chemical Physics, 2020, 153, 144503.	3.0	2
8	Deep donor behavior of iron in $\hat{\Gamma}^2$ -Ga ₂ O ₃ crystals: Establishing the Fe ^{4+/3+} level. Journal of Applied Physics, 2020, 128, .	2.5	8
9	Near-infrared-sensitive photorefractive Sn ₂ P ₂ S ₆ crystals grown by the Bridgman method. Journal of Applied Physics, 2020, 127, 103103.	2.5	4
10	Experimental determination of the (0/ $\hat{\Gamma}^2$) level for Mg acceptors in $\hat{\Gamma}^2$ -Ga ₂ O ₃ crystals. Applied Physics Letters, 2020, 116, .	3.3	20
11	Ir ⁴⁺ ions in $\hat{\Gamma}^2$ -Ga ₂ O ₃ crystals: An unintentional deep donor. Journal of Applied Physics, 2019, 125, .	2.5	32
12	Deep donors and acceptors in $\hat{\Gamma}^2$ -Ga ₂ O ₃ crystals: Determination of the Fe ^{2+/3+} level by a noncontact method. Journal of Applied Physics, 2019, 126, .	2.5	39
13	Self-trapped holes (small polarons) in ferroelectric KH ₂ PO ₄ crystals. Journal of Physics Condensed Matter, 2019, 31, 505503.	1.8	5
14	Lithium and gallium vacancies in LiGaO ₂ crystals. Journal of Applied Physics, 2018, 124, 135702.	2.5	13
15	Electron paramagnetic resonance and optical absorption study of acceptors in CdSiP ₂ crystals. AIP Advances, 2018, 8, .	1.3	4
16	Hyperbolic decay of photo-created Sb ²⁺ ions in Sn ₂ P ₂ S ₆ :Sb crystals detected with electron paramagnetic resonance. Applied Physics Letters, 2017, 110, 052903.	3.3	6
17	Gallium vacancies in $\hat{\Gamma}^2$ -Ga ₂ O ₃ crystals. Applied Physics Letters, 2017, 110, .	3.3	120
18	Electron paramagnetic resonance study of neutral Mg acceptors in $\hat{\Gamma}^2$ -Ga ₂ O ₃ crystals. Applied Physics Letters, 2017, 111, .	3.3	54

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19	Self-trapped holes in $\hat{\Gamma}^2$ -Ga ₂ O ₃ crystals. Journal of Applied Physics, 2017, 122, .	2.5	87
20	Time resolved nonlinear response of Sn ₂ P ₂ S ₆ :Sb to nanosecond pulse excitation. Journal of Physics: Conference Series, 2017, 867, 012002.	0.4	0
21	Dual role of Sb ions as electron traps and hole traps in photorefractive Sn ₂ P ₂ S ₆ crystals. Optical Materials Express, 2016, 6, 3992.	3.0	5
22	Sn vacancies in photorefractive Sn ₂ P ₂ S ₆ crystals: An electron paramagnetic resonance study of an optically active hole trap. Journal of Applied Physics, 2016, 120, .	2.5	13
23	Interstitial silicon ions in rutile TiO ₂ crystals. Physical Review B, 2015, 91, .	3.2	6
24	Oxygen vacancies in LiAlO ₂ crystals. Physical Review B, 2015, 92, .	3.2	11
25	Sulfur vacancies in photorefractive Sn ₂ P ₂ S ₆ crystals. Journal of Applied Physics, 2014, 116, .	2.5	6
26	Triplet ground state of the neutral oxygen-vacancy donor in rutile TiO ₂ . Physical Review B, 2014, 89, .	3.2	21
27	Neutral nitrogen acceptors in ZnO: The ⁶⁷ Zn hyperfine interactions. Journal of Applied Physics, 2014, 115, 103703.	2.5	1
28	Insertion of lithium ions into TiO ₂ (rutile) crystals: An electron paramagnetic resonance study of the Li-associated Ti ³⁺ small polaron. Journal of Applied Physics, 2013, 113, 053712.	2.5	20
29	Ground state of the singly ionized oxygen vacancy in rutile TiO ₂ . Journal of Applied Physics, 2013, 114, .	2.5	23
30	Intrinsic small polarons in rutile TiO ₂ . Physical Review B, 2013, 87, .	3.2	94
31	Intrinsic small polarons (Sn ³⁺ ions) in photorefractive Sn ₂ P ₂ S ₆ crystals. Journal of Physics Condensed Matter, 2013, 25, 205501.	1.8	13
32	Photoinduced EPR study of Sb ³⁺ ions in photorefractive Sn ₂ P ₂ S ₆ crystals. Journal of Applied Physics, 2011, 110, .	3.2	16
33	Hydrogen donors and Ti ³⁺ ions in reduced TiO ₂ crystals. Journal of Applied Physics, 2011, 110, .	2.5	45
34	Oxygen vacancies adjacent to Cu ²⁺ ions in TiO ₂ (rutile) crystals. Journal of Applied Physics, 2011, 109, .	2.5	23
35	Electron and hole traps in Ag-doped lithium tetraborate (Li ₂ B ₄ O ₇) crystals. Journal of Applied Physics, 2011, 110, .	2.5	35
36	Photoinduced self-trapped hole center in TiO ₂ . Physical Review B, 2010, 82, .	3.2	36

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37	Fluorine donors and Ti^{3+} in TiO_2 crystals. <i>Physical Review B</i> , 2010, 81, .	3.2	36
38	Identification of electron and hole traps in lithium tetraborate ($Li_2B_4O_7$) crystals: Oxygen vacancies and lithium vacancies. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	51
39	Photoinduced electron paramagnetic resonance study of electron traps in TiO_2 crystals: Oxygen vacancies and Ti^{3+} ions. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	94
40	Electron paramagnetic resonance of Er^{3+} ions in aluminum nitride. <i>Journal of Applied Physics</i> , 2009, 105, 023714.	2.5	14
41	Further characterization of oxygen vacancies and zinc vacancies in electron-irradiated ZnO. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	124
42	Persistent photoinduced changes in charge states of transition-metal donors in hydrothermally grown ZnO crystals. <i>Journal of Applied Physics</i> , 2007, 101, 093706.	2.5	42
43	Electron paramagnetic resonance and electron-nuclear double resonance study of Mn^{2+} ions in $CdGeAs_2$ crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 4070-4079.	1.5	5
44	Persistent Photoinduced Changes in Charge States of Donors and Acceptors in Hydrothermally Grown ZnO. <i>Materials Research Society Symposia Proceedings</i> , 2006, 957, 1.	0.1	0
45	Hyperfine structure associated with the dominant radiation-induced trapped hole center in $RbTiOPO_4$ crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 2489-2496.	1.5	6
46	Electron-nuclear double-resonance study of Mn^{2+} ions in $ZnGeP_2$ crystals. <i>Physical Review B</i> , 2005, 72, .	3.2	9
47	Thermal diffusion of lithium acceptors into ZnO crystals. <i>Journal of Electronic Materials</i> , 2003, 32, 766-771.	2.2	11
48	The path to ZnO devices: donor and acceptor dynamics. <i>Physica Status Solidi A</i> , 2003, 195, 171-177.	1.7	140
49	Electron paramagnetic resonance of Cr^{2+} and Cr^{4+} ions in $CdGeAs_2$ crystals. <i>Journal of Applied Physics</i> , 2003, 94, 7567.	2.5	16
50	Production and thermal decay of radiation-induced point defects in KD_2PO_4 crystals. <i>Journal of Applied Physics</i> , 2003, 94, 6456-6462.	2.5	52
51	Determination of the Nitrogen Acceptor Ionization Energy in Zinc Oxide by Photoluminescence Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2003, 799, 251.	0.1	0
52	Electron paramagnetic resonance and electron-nuclear double resonance study of the neutral copper acceptor in $ZnGeP_2$ crystals. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 1625-1633.	1.8	8
53	Optical and EPR Study of Defects in Cadmium Germanium Arsenide. <i>Materials Research Society Symposia Proceedings</i> , 2002, 744, 1.	0.1	0
54	Luminescence and EPR Study of Lithium-Diffused ZnO Crystals. <i>Materials Research Society Symposia Proceedings</i> , 2002, 744, 1.	0.1	0

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55	Production of nitrogen acceptors in ZnO by thermal annealing. Applied Physics Letters, 2002, 80, 1334-1336.	3.3	194
56	Electron paramagnetic resonance of platinum impurities in KTiOPO ₄ crystals. Journal of Applied Physics, 2000, 87, 8682-8687.	2.5	11
57	Role of silicon impurities in the trapping of holes in KTiOPO ₄ crystals. Journal of Applied Physics, 1999, 85, 1063-1068.	2.5	9
58	Characterization of defect-related optical absorption in ZnGeP ₂ . Journal of Applied Physics, 1999, 86, 6677-6681.	2.5	53
59	Optical and EPR characterization of point defects in bismuth-doped CdWO ₄ crystals. Radiation Effects and Defects in Solids, 1999, 149, 273-278.	1.2	18
60	Photoluminescence and EPR of Phosphorus Vacancies in ZnGeP ₂ . Materials Research Society Symposia Proceedings, 1999, 607, 445.	0.1	6
61	Photoinduced Changes in the Charge States of Native Donors and Acceptors in ZnGeP ₂ . Materials Research Society Symposia Proceedings, 1999, 607, 379.	0.1	4
62	Identification of the intrinsic self-trapped hole center in KD ₂ PO ₄ . Applied Physics Letters, 1999, 75, 1503-1505.	3.3	33
63	Point defects in Cd _{1-x} Zn _x Te: A correlated photoluminescence and EPR study. Journal of Electronic Materials, 1998, 27, 813-819.	2.2	11
64	Hydrogen atoms in KH ₂ PO ₄ crystals. Physical Review B, 1998, 57, 2643-2646.	3.2	56
65	Compensating defects in heavily nitrogen-doped zinc selenide: A photoluminescence study. Applied Physics Letters, 1997, 70, 1724-1726.	3.3	10
66	Electron-Nuclear Double Resonance Study of the Zinc Vacancy in Zinc GERMANIUM PHOSPHIDE (ZnGeP ₂). Materials Research Society Symposia Proceedings, 1997, 484, 549.	0.1	19
67	Observation of singly ionized selenium vacancies in ZnSe grown by molecular beam epitaxy. Applied Physics Letters, 1997, 70, 2274-2276.	3.3	33
68	PI And Epr Spectroscopy Of Point Defects In Detector-Grade Cd _{1-x} Zn _x Te. Materials Research Society Symposia Proceedings, 1997, 487, 71.	0.1	0
69	Photoluminescence of nitrogen-doped zinc selenide epilayers. Journal of Electronic Materials, 1997, 26, 732-737.	2.2	2
70	Photoluminescence And Electron Paramagnetic Resonance Of Nitrogen-Doped Zinc Selenide Epilayers. Materials Research Society Symposia Proceedings, 1996, 442, 555.	0.1	1
71	Electron Paramagnetic Resonance and Photoluminescence Studies of Point Defects in Zinc Germanium Phosphide (ZnGeP ₂). Materials Research Society Symposia Proceedings, 1996, 450, 327.	0.1	9
72	Photoluminescence and micro-Raman studies of as-grown and high-temperature-annealed KTiOPO ₄ . Applied Physics Letters, 1996, 68, 897-899.	3.3	8

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73	Electronâ€paramagneticâ€resonance spectra in asâ€grown CdGeAs ₂ . Journal of Applied Physics, 1995, 77, 435-437.	2.5	19
74	Radiation Damage Mechanisms In Scintillator Materials: Applications to BaF ₂ and CeF ₃ . Materials Research Society Symposia Proceedings, 1994, 348, 423.	0.1	7
75	Identification of a radiation-induced hole center in KTiOPO ₄ . Physical Review B, 1993, 48, 6884-6891.	3.2	41
76	Further characterization of the E1â€center in crystalline SiO ₂ . Physical Review B, 1983, 27, 2285-2293.	3.2	234