Larry Halliburton

List of Publications by Year
in descending order

76 papers	2,190 citations	279798 23 h-index	223800 46 g-index
76 all docs	76 docs citations	76 times ranked	2027 citing authors

#	Article	IF	Citations
1	Further characterization of theE1â€²center in crystalline SiO2. Physical Review B, 1983, 27, 2285-2293.	3.2	234
2	Production of nitrogen acceptors in ZnO by thermal annealing. Applied Physics Letters, 2002, 80, 1334-1336.	3.3	194
3	The path to ZnO devices: donor and acceptor dynamics. Physica Status Solidi A, 2003, 195, 171-177.	1.7	140
4	Further characterization of oxygen vacancies and zinc vacancies in electron-irradiated ZnO. Journal of Applied Physics, 2008, 103, .	2.5	124
5	Gallium vacancies in Î²-Ga2O3 crystals. Applied Physics Letters, 2017, 110, .	3.3	120
6	Photoinduced electron paramagnetic resonance study of electron traps in TiO2 crystals: Oxygen vacancies and Ti3+ ions. Applied Physics Letters, 2009, 94, .	3.3	94
7	Intrinsic small polarons in rutile TiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 87, .	3.2	94
8	Self-trapped holes in Î²-Ga2O3 crystals. Journal of Applied Physics, 2017, 122, .	2.5	87
9	Hydrogen atoms inKH2PO4crystals. Physical Review B, 1998, 57, 2643-2646.	3.2	56
10	Electron paramagnetic resonance study of neutral Mg acceptors in Î²-Ga2O3 crystals. Applied Physics Letters, 2017, 111, .	3.3	54
11	Characterization of defect-related optical absorption in ZnGeP2. Journal of Applied Physics, 1999, 86, 6677-6681.	2.5	53
12	Production and thermal decay of radiation-induced point defects in KD2PO4 crystals. Journal of Applied Physics, 2003, 94, 6456-6462.	2.5	52
13	Identification of electron and hole traps in lithium tetraborate (Li2B4O7) crystals: Oxygen vacancies and lithium vacancies. Journal of Applied Physics, 2010, 107, .	2.5	51
14	Hydrogen donors and Ti3+ ions in reduced TiO2 crystals. Journal of Applied Physics, 2011, 110, .	2.5	45
15	Persistent photoinduced changes in charge states of transition-metal donors in hydrothermally grown ZnO crystals. Journal of Applied Physics, 2007, 101, 093706.	2.5	42
16	Identification of a radiation-induced hole center inKTiOPO4. Physical Review B, 1993, 48, 6884-6891.	3.2	41
17	Deep donors and acceptors in Î²-Ga2O3 crystals: Determination of the Fe2+/3+ level by a noncontact method. Journal of Applied Physics, 2019, 126, .	2.5	39
18	Photoinduced self-trapped hole center in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TiO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu Physical Review B, 2010, 82, .	3.2	36

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19	Fluorine donors and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Ti</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</mml:mn> in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TiO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2010, 81, .	3.2	36
20	Electron and hole traps in Ag-doped lithium tetraborate (Li2B4O7) crystals. Journal of Applied Physics, 2011, 110, .	2.5	35
21	Observation of singly ionized selenium vacancies in ZnSe grown by molecular beam epitaxy. Applied Physics Letters, 1997, 70, 2274-2276.	3.3	33
22	Identification of the intrinsic self-trapped hole center in KD2PO4. Applied Physics Letters, 1999, 75, 1503-1505.	3.3	33
23	Ir4+ ions in Î²-Ga2O3 crystals: An unintentional deep donor. Journal of Applied Physics, 2019, 125, .	2.5	32
24	Oxygen vacancies adjacent to Cu2+ ions in TiO2 (rutile) crystals. Journal of Applied Physics, 2011, 109, .	2.5	23
25	Ground state of the singly ionized oxygen vacancy in rutile TiO2. Journal of Applied Physics, 2013, 114, .	2.5	23
26	Zn acceptors in Î²-Ga2O3 crystals. Journal of Applied Physics, 2021, 129, .	2.5	22
27	Triplet ground state of the neutral oxygen-vacancy donor in rutile<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2014, 89, .	3.2	21
28	Insertion of lithium ions into TiO2 (rutile) crystals: An electron paramagnetic resonance study of the Li-associated Ti3+ small polaron. Journal of Applied Physics, 2013, 113, 053712.	2.5	20
29	Experimental determination of the (0/â^') level for Mg acceptors in Î² -Ga2O3 crystals. Applied Physics Letters, 2020, 116, .	3.3	20
30	Electronâ€paramagneticâ€resonance spectra in asâ€grown CdGeAs2. Journal of Applied Physics, 1995, 77, 435-437.	2.5	19
31	Electron-Nuclear Double Resonance Study of the Zinc Vacancy in Zinc GERMANIUM PHOSPHIDE (ZnGeP₂). Materials Research Society Symposia Proceedings, 1997, 484, 549.	0.1	19
32	Optical and EPR characterization of point defects in bismuth-doped CdWO₄crystals. Radiation Effects and Defects in Solids, 1999, 149, 273-278.	1.2	18
33	Electron paramagnetic resonance of Cr[sup 2+] and Cr[sup 4+] ions in CdGeAs[sub 2] crystals. Journal of Applied Physics, 2003, 94, 7567.	2.5	16
34	Photoinduced EPR study of Sb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math>ions in photorefractive Sn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>P<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	16
35	Electron paramagnetic resonance of Er3+ ions in aluminum nitride. Journal of Applied Physics, 2009, 105, 023714.	2.5	14
36	Intrinsic small polarons (Sn3+ions) in photorefractive Sn2P2S6crystals. Journal of Physics Condensed Matter, 2013, 25, 205501.	1.8	13

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37	Sn vacancies in photorefractive Sn2P2S6 crystals: An electron paramagnetic resonance study of an optically active hole trap. Journal of Applied Physics, 2016, 120, .	2.5	13
38	Lithium and gallium vacancies in LiGaO2 crystals. Journal of Applied Physics, 2018, 124, 135702.	2.5	13
39	Point defects in Cd1â^'xZnxTe: A correlated photoluminescence and EPR study. Journal of Electronic Materials, 1998, 27, 813-819.	2.2	11
40	Electron paramagnetic resonance of platinum impurities in KTiOPO4 crystals. Journal of Applied Physics, 2000, 87, 8682-8687.	2.5	11
41	Thermal diffusion of lithium acceptors into ZnO crystals. Journal of Electronic Materials, 2003, 32, 766-771.	2.2	11
42	Oxygen vacancies inLiAlO2crystals. Physical Review B, 2015, 92, .	3.2	11
43	Compensating defects in heavily nitrogen-doped zinc selenide: A photoluminescence study. Applied Physics Letters, 1997, 70, 1724-1726.	3.3	10
44	Electron Paramagnetic Resonance and Photoluminescence Studies of Point Defects in Zinc Germanium Phosphide (ZnGeP₂). Materials Research Society Symposia Proceedings, 1996, 450, 327.	0.1	9
45	Role of silicon impurities in the trapping of holes in KTiOPO4 crystals. Journal of Applied Physics, 1999, 85, 1063-1068.	2.5	9
46	Electron-nuclear double-resonance study ofMn2+ions inZnGeP2crystals. Physical Review B, 2005, 72, .	3.2	9
47	Photoluminescence and microâ€Raman studies of asâ€grown and highâ€temperatureâ€annealed KTiOPO4. Applied Physics Letters, 1996, 68, 897-899.	3.3	8
48	Electron paramagnetic resonance and electron-nuclear double resonance study of the neutral copper acceptor in ZnGeP2crystals. Journal of Physics Condensed Matter, 2003, 15, 1625-1633.	1.8	8
49	Deep donor behavior of iron in Î²-Ga2O3 crystals: Establishing the Fe4+/3+ level. Journal of Applied Physics, 2020, 128, .	2.5	8
50	Cu2+ and Cu3+ acceptors in Î²-Ga2O3 crystals: A magnetic resonance and optical absorption study. Journal of Applied Physics, 2022, 131, .	2.5	8
51	Radiation Damage Mechanisms In Scintillator Materials: Applications to BaF2 and CeF3. Materials Research Society Symposia Proceedings, 1994, 348, 423.	0.1	7
52	Persistent Room-Temperature Photodarkening in Cu-Doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î²</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mrow><mml:mi>Ga</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2022, 128, 077402.	7.8	7
53	Photoluminescence and EPR of Phosphorus Vacancies in ZnGep₂. Materials Research Society Symposia Proceedings, 1999, 607, 445.	0.1	6
54	Hyperfine structure associated with the dominant radiation-induced trapped hole center in RbTiOPO4 crystals. Physica Status Solidi (B): Basic Research, 2005, 242, 2489-2496.	1.5	6

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55	Sulfur vacancies in photorefractive Sn2P2S6 crystals. Journal of Applied Physics, 2014, 116, .	2.5	6
56	Interstitial silicon ions in rutileTiO2crystals. Physical Review B, 2015, 91, .	3.2	6
57	Hyperbolic decay of photo-created Sb2+ ions in Sn2P2S6:Sb crystals detected with electron paramagnetic resonance. Applied Physics Letters, 2017, 110, 052903.	3.3	6
58	Electron paramagnetic resonance and electron-nuclear double resonance study of Mn2+ ions in CdGeAs2 crystals. Physica Status Solidi (B): Basic Research, 2006, 243, 4070-4079.	1.5	5
59	Dual role of Sb ions as electron traps and hole traps in photorefractive Sn_2P_2S_6 crystals. Optical Materials Express, 2016, 6, 3992.	3.0	5
60	Self-trapped holes (small polarons) in ferroelectric KH2PO4 crystals. Journal of Physics Condensed Matter, 2019, 31, 505503.	1.8	5
61	Photoinduced Changes in the Charge States of Native Donors and Acceptors in ZnGeP₂. Materials Research Society Symposia Proceedings, 1999, 607, 379.	0.1	4
62	Electron paramagnetic resonance and optical absorption study of acceptors in CdSiP2 crystals. AIP Advances, 2018, 8, .	1.3	4
63	Near-infrared-sensitive photorefractive Sn2P2S6 crystals grown by the Bridgman method. Journal of Applied Physics, 2020, 127, 103103.	2.5	4
64	Photoinduced trapping of charge at sulfur vacancies and copper ions in photorefractive Sn2P2S6 crystals. Journal of Applied Physics, 2021, 129, 085702.	2.5	3
65	Photoluminescence of nitrogen-doped zinc selenide epilayers. Journal of Electronic Materials, 1997, 26, 732-737.	2.2	2
66	Charge trapping by iodine ions in photorefractive Sn2P2S6 crystals. Journal of Chemical Physics, 2020, 153, 144503.	3.0	2
67	Photoluminescence And Electron Paramagnetic Resonance Of Nitrogen-Doped Zinc Selenide Epilayers. Materials Research Society Symposia Proceedings, 1996, 442, 555.	0.1	1
68	Neutral nitrogen acceptors in ZnO: The 67Zn hyperfine interactions. Journal of Applied Physics, 2014, 115, 103703.	2.5	1
69	Optically active selenium vacancies in BaGa4Se7 crystals. Journal of Applied Physics, 2021, 130, 173104.	2.5	1
70	Electron traps in Ag-doped Li₂B₄O₇ crystals: The role of Ag interstitial ions. Journal of Applied Physics, 2022, 131, 175106.	2.5	1
71	Pl And Epr Spectroscopy Of Point Defects In Detector-Grade Cd1â"xZnxTe. Materials Research Society Symposia Proceedings, 1997, 487, 71.	0.1	0
72	Optical and EPR Study of Defects in Cadmium Germanium Arsenide. Materials Research Society Symposia Proceedings, 2002, 744, 1.	0.1	0

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73	Luminescence and EPR Study of Lithium-Diffused ZnO Crystals. Materials Research Society Symposia Proceedings, 2002, 744, 1.	0.1	0
74	Determination of the Nitrogen Acceptor Ionization Energy in Zinc Oxide by Photoluminescence Spectroscopy. Materials Research Society Symposia Proceedings, 2003, 799, 251.	0.1	0
75	Persistent Photoinduced Changes in Charge States of Donors and Acceptors in Hydrothermally Grown ZnO. Materials Research Society Symposia Proceedings, 2006, 957, 1.	0.1	0
76	Time resolved nonlinear response of Sn₂P₂S₆:Sb to nanosecond pulse excitation. Journal of Physics: Conference Series, 2017, 867, 012002.	0.4	0