

Riadh Issaoui

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

533
citations

566801

15
h-index

642321

23
g-index

27
all docs

27
docs citations

27
times ranked

543
citing authors

#	ARTICLE	IF	CITATIONS
1	Thick boron doped diamond single crystals for high power electronics. <i>Diamond and Related Materials</i> , 2011, 20, 145-152.	1.8	66
2	Identification of etch-pit crystallographic faces induced on diamond surface by H_2/O_2 etching plasma treatment. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1949-1954.	0.8	55
3	Boron acceptor concentration in diamond from excitonic recombination intensities. <i>Physical Review B</i> , 2011, 83, .	1.1	44
4	Growth of thick heavily boron-doped diamond single crystals: Effect of microwave power density. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	36
5	Freestanding CVD boron doped diamond single crystals: A substrate for vertical power electronic devices?. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 1651-1658.	0.8	33
6	Dislocations and impurities introduced from etch-pits at the epitaxial growth resumption of diamond. <i>Diamond and Related Materials</i> , 2011, 20, 875-881.	1.8	32
7	Homoeptaxial boron-doped diamond with very low compensation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 1750-1753.	0.8	32
8	An assessment of contact metallization for high power and high temperature diamond Schottky devices. <i>Diamond and Related Materials</i> , 2012, 27-28, 23-28.	1.8	26
9	Phosphorus-doped (113) CVD diamond: A breakthrough towards bipolar diamond devices. <i>Applied Physics Letters</i> , 2019, 114, 112106.	1.5	26
10	Evaluation of freestanding boron-doped diamond grown by chemical vapour deposition as substrates for vertical power electronic devices. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	25
11	Influence of oxygen addition on the crystal shape of CVD boron doped diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 2023-2027.	0.8	20
12	CVD diamond Schottky barrier diode, carrying out and characterization. <i>Diamond and Related Materials</i> , 2010, 19, 792-795.	1.8	18
13	Epitaxial diamond on Ir/ SrTiO ₃ /Si (001): From sequential material characterizations to fabrication of lateral Schottky diodes. <i>Diamond and Related Materials</i> , 2020, 105, 107768.	1.8	18
14	Performance Enhancement of Al ₂ O ₃ /H-Diamond MOSFETs Utilizing Vacuum Annealing and V ₂ O ₅ as a Surface Electron Acceptor. <i>IEEE Electron Device Letters</i> , 2018, 39, 1354-1357.	2.2	16
15	Dislocation density reduction using overgrowth on hole arrays made in heteroepitaxial diamond substrates. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	16
16	Ionized Physical Vapour Deposition combined with PECVD, for synthesis of carbon-metal nanocomposite thin films. <i>Solid State Sciences</i> , 2009, 11, 1824-1827.	1.5	14
17	Ohmic graphite-metal contacts on oxygen-terminated lightly boron-doped CVD monocrystalline diamond. <i>Diamond and Related Materials</i> , 2019, 92, 18-24.	1.8	13
18	Thick and widened high quality heavily boron doped diamond single crystals synthesized with high oxygen flow under high microwave power regime. <i>Diamond and Related Materials</i> , 2019, 94, 88-91.	1.8	10

#	ARTICLE	IF	CITATIONS
19	Defect and Threading Dislocations in Single Crystal Diamond: A Focus on Boron and Nitrogen Codoping. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900581.	0.8	9
20	Radiative lifetime of boron-bound excitons in diamond. Applied Physics Letters, 2019, 114, .	1.5	7
21	Investigation of a distributed antenna array microwave system for the three-dimensional low-temperature growth of nanocrystalline diamond films. Diamond and Related Materials, 2019, 94, 28-36.	1.8	6
22	Phonon-assisted transitions of bound excitons in diamond: Analysis by mirror symmetry. Physical Review B, 2020, 101, .	1.1	4
23	Self-Assembled Silica Nanoparticles for Diamond Nano-Structuration. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800391.	0.8	3
24	Microstructure and biological evaluation of nanocrystalline diamond films deposited on titanium substrates using distributed antenna array microwave system. Diamond and Related Materials, 2020, 103, 107700.	1.8	3
25	Evolution of Diamond Crystal Shape with Boron Concentration during CVD Growth. , 2010, , .		1
26	Back Cover (Phys. Status Solidi A 9/2009). Physica Status Solidi (A) Applications and Materials Science, 2009, 206, NA-NA.	0.8	0
27	Diode Schottky sur diamant CVD. Simulation, r�alisation technologique et �tude de protection p�riph�rique. European Journal of Electrical Engineering, 2011, 14, 553-567.	1.1	0