


LUO, JUN-WEI

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ResearcherID: B-6545-2013

Other Names:

E-mail: jwluo@semi.ac.cn

URL: http://www.researcherid.com/rid/B-6545-2013

Subject: Physics

Keywords: optoelectronic semiconductors; defect physics; low-dimensional semiconductor nanostructures; spin-orbit coupling in semiconductors

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Primary Institution: Institute of Semiconductors, Chinese Academy of Sciences

Sub-org./Dept: State Key Laboratory of Superlattices and Microstructures

Role: Researcher (Academic)

Joint Affiliation: University of Chinese Academy of Sciences

Sub-org./Dept: College of Materials Science and Opto-Electronic Technology

Role: Faculty

Past Institutions: National Renewable Energy Laboratory


Description: I currently focus on theoretical prediction and design of semiconductor information materials for semiconductor optoelectronic (quantum) integrated circuit technologies. I had made several major research achievements, such as systematically studying the optical emission mechanism in Silicon quantum dots and designing multiples schemes of high efficient Silicon-based lighting materials to overcome the world-wide challenge of on-chip light source; revealing the mechanisms of interfacial charge transfer and of dopant diffusions in semiconductor devices; uncovering novel mechanisms of spin-orbit coupling effect in conventional semiconductor low-dimensional systems; and proposing a textbook class theory of spin-orbit coupling. I published more than 50 peer-reviewed papers, including 5 on nature sister journals and 5 on PRL. I was invited to talk or service as a session chair in prestigious international conferences such as APS, ACS, E-MRS, JSAP-MRS and ICSNN.

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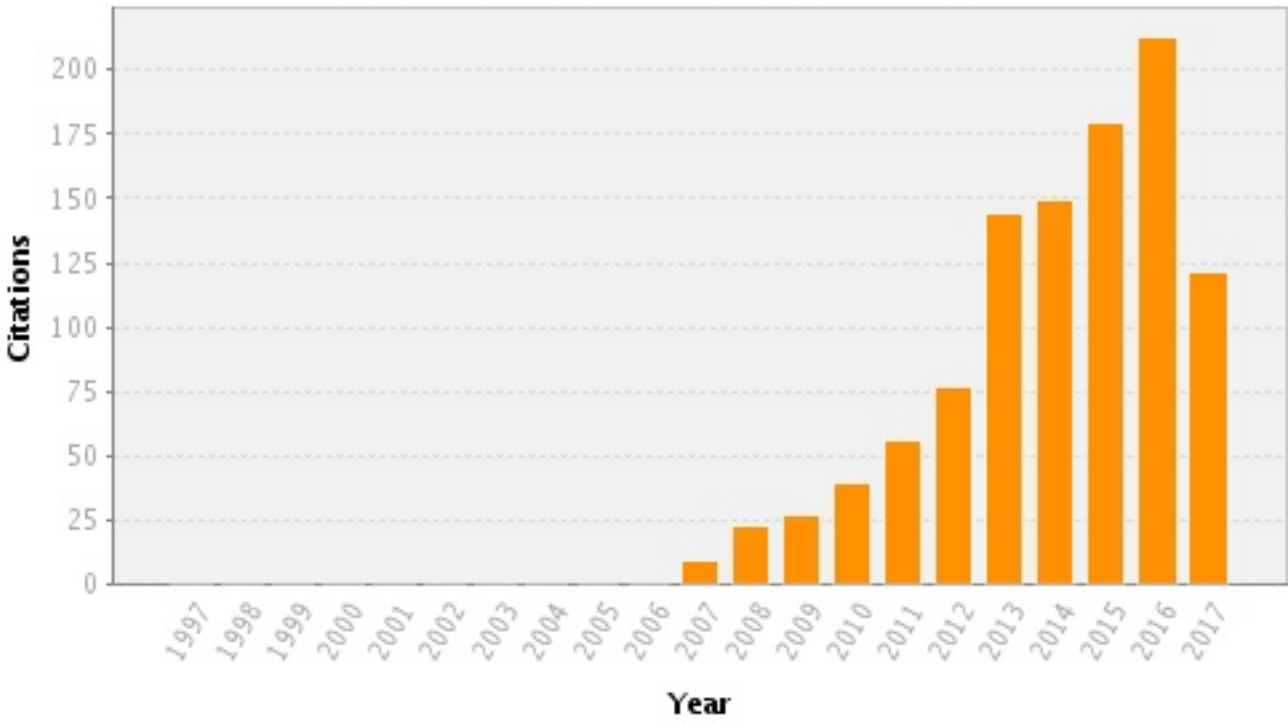
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Citation Distribution by year



Year	Citations
1997	0
1998	0
1999	0
2000	0
2001	0
2002	0
2003	0
2004	0
2005	0
2006	0
2007	10
2008	25
2009	30
2010	40
2011	55
2012	75
2013	145
2014	150
2015	180
2016	210
2017	120

Total Articles in Publication List: 55

Articles With Citation Data: 54

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