

# Irene Calizo

## List of Publications by Year in descending order

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22  
papers

16,457  
citations

471061

17  
h-index

676716

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

20811  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superior Thermal Conductivity of Single-Layer Graphene. Nano Letters, 2008, 8, 902-907.	4.5	11,726
2	Extremely high thermal conductivity of graphene: Prospects for thermal management applications in nanoelectronic circuits. Applied Physics Letters, 2008, 92, .	1.5	1,745
3	Temperature Dependence of the Raman Spectra of Graphene and Graphene Multilayers. Nano Letters, 2007, 7, 2645-2649.	4.5	1,057
4	Toward Clean and Crackless Transfer of Graphene. ACS Nano, 2011, 5, 9144-9153.	7.3	701
5	The effect of substrates on the Raman spectrum of graphene: Graphene- on-sapphire and graphene-on-glass. Applied Physics Letters, 2007, 91, 201904.	1.5	213
6	DFT study of adsorption behavior of NO, CO, NO <sub>2</sub> , and NH <sub>3</sub> molecules on graphene-like BC <sub>3</sub> : A search for highly sensitive molecular sensor. Applied Surface Science, 2018, 427, 326-333.	3.1	208
7	Evolution of microscopic localization in graphene in a magnetic field from scattering resonances to quantum dots. Nature Physics, 2011, 7, 245-251.	6.5	122
8	Raman nanometrology of graphene: Temperature and substrate effects. Solid State Communications, 2009, 149, 1132-1135.	0.9	115
9	A theoretical study of gas adsorption on silicene nanoribbons and its application in a highly sensitive molecule sensor. RSC Advances, 2016, 6, 94417-94428.	1.7	94
10	Thermal conduction in nanocrystalline diamond films: Effects of the grain boundary scattering and nitrogen doping. Applied Physics Letters, 2006, 89, 171915.	1.5	77
11	Doping and defect-induced germanene: A superior media for sensing H <sub>2</sub> S, SO <sub>2</sub> , and CO <sub>2</sub> gas molecules. Surface Science, 2017, 665, 96-102.	0.8	76
12	Band gap tuning of armchair silicene nanoribbons using periodic hexagonal holes. Journal of Applied Physics, 2015, 118, .	1.1	58
13	Properties of graphene produced by the high pressure–high temperature growth process. Micro and Nano Letters, 2008, 3, 29.	0.6	56
14	Edge functionalized germanene nanoribbons: impact on electronic and magnetic properties. RSC Advances, 2017, 7, 18900-18908.	1.7	55
15	A highly practical route for large-area, single layer graphene from liquid carbon sources such as benzene and methanol. Journal of Materials Chemistry, 2011, 21, 16057.	6.7	44
16	Edge functionalization and doping effects on the stability, electronic and magnetic properties of silicene nanoribbons. RSC Advances, 2016, 6, 17046-17058.	1.7	41
17	Carbon scrolls from chemical vapor deposition grown graphene. Carbon, 2014, 76, 257-265.	5.4	18
18	Lithium-functionalized germanene: A promising media for CO <sub>2</sub> capture. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 334-338.	0.9	17

#	ARTICLE	IF	CITATIONS
19	Band gap opening and optical absorption enhancement in graphene using ZnO nanocluster. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 1171-1175.	0.9	16
20	Emergence of strong ferromagnetism in silicene nanoflakes via patterned hydrogenation and its potential application in spintronics. <i>Computational Materials Science</i> , 2017, 138, 204-212.	1.4	7
21	Structural Stability of Functionalized Silicene Nanoribbons with Normal, Reconstructed, and Hybrid Edges. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-8.	1.5	6
22	Density Functional Theory Study on Energy Band Gap of Armchair Silicene Nanoribbons with Periodic Nanoholes. <i>MRS Advances</i> , 2016, 1, 1613-1618.	0.5	5