

# Catherine Marichy

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5138652/catherine-marichy-publications-by-citations.pdf>  
**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29 papers	1,076 citations	14 h-index	32 g-index
32 ext. papers	1,188 ext. citations	6.9 avg, IF	4.61 L-index

#	Paper	IF	Citations
29	Atomic layer deposition of nanostructured materials for energy and environmental applications. <i>Advanced Materials</i> , <b>2012</b> , 24, 1017-32	24	444
28	Carbon-nanostructures coated/decorated by atomic layer deposition: Growth and applications. <i>Coordination Chemistry Reviews</i> , <b>2013</b> , 257, 3232-3253	23.2	83
27	A one-pot microwave-assisted non-aqueous sol-gel approach to metal oxide/graphene nanocomposites for Li-ion batteries. <i>RSC Advances</i> , <b>2011</b> , 1, 1687	3.7	72
26	Tin Dioxide Sensing Layer Grown on Tubular Nanostructures by a Non-Aqueous Atomic Layer Deposition Process. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 658-666	15.6	68
25	Silicon Hyperuniform Disordered Photonic Materials with a Pronounced Gap in the Shortwave Infrared. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 115-119	8.1	50
24	Atomic layer deposition of stable 2D materials. <i>2D Materials</i> , <b>2019</b> , 6, 012001	5.9	48
23	Labeling and monitoring the distribution of anchoring sites on functionalized CNTs by atomic layer deposition. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 7323		39
22	Gas sensing properties and p-type response of ALD TiO <sub>2</sub> coated carbon nanotubes. <i>Nanotechnology</i> , <b>2015</b> , 26, 024004	3.4	34
21	In Situ Infrared Spectroscopic Study of Atomic Layer-Deposited TiO <sub>2</sub> Thin Films by Nonaqueous Routes. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 1706-1712	9.6	31
20	ALD SnO <sub>2</sub> protective decoration enhances the durability of a Pt based electrocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 969-975	13	30
19	High-quality photonic crystals with a nearly complete band gap obtained by direct inversion of woodpile templates with titanium dioxide. <i>Scientific Reports</i> , <b>2016</b> , 6, 21818	4.9	27
18	Atomic Layer Deposition to Materials for Gas Sensing Applications. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600335	4.6	27
17	Promising properties of ALD boron nitride nanotube mats for water purification. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 2311-2320	7.1	17
16	CoFe <sub>2</sub> O <sub>4</sub> -TiO <sub>2</sub> and CoFe <sub>2</sub> O <sub>4</sub> -ZnO thin film nanostructures elaborated from colloidal chemistry and atomic layer deposition. <i>Langmuir</i> , <b>2010</b> , 26, 18400-7	4	16
15	Photonic hyperuniform networks obtained by silicon double inversion of polymer templates. <i>Optica</i> , <b>2017</b> , 4, 361	8.6	14
14	Tin Dioxide/Carbon Heterostructures Applied to Gas Sensing: Structure-Dependent Properties and General Sensing Mechanism. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 130916143757006	3.8	13
13	A Novel Two-Step Ammonia-Free Atomic Layer Deposition Approach for Boron Nitride. <i>ChemNanoMat</i> , <b>2017</b> , 3, 656-663	3.5	13

12	Anomalous C-V response correlated to relaxation processes in TiO <sub>2</sub> thin film based-metal-insulator-metal capacitor: Effect of titanium and oxygen defects. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 154101	2.5	8
11	Coating of Carbon Nanotubes <b>2012</b> , 327-343		7
10	Nonaqueous sol-gel chemistry applied to atomic layer deposition: tuning of photonic band gap properties of silica opals. <i>Nanoscale</i> , <b>2010</b> , 2, 786-92	7.7	6
9	Synthesis of hexagonal boron nitride 2D layers using polymer derived ceramics route and derivatives. <i>JPhys Materials</i> , <b>2020</b> , 3, 034002	4.2	5
8	Photonic Materials: Silicon Hyperuniform Disordered Photonic Materials with a Pronounced Gap in the Shortwave Infrared (Advanced Optical Materials 2/2014). <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 104-104 <sup>1</sup>	8.1	4
7	Sol-Gel Chemistry and Atomic Layer Deposition <b>2012</b> , 61-82		4
6	Sensing Properties of SnO <sub>2</sub> /CNFs Hetero-Junctions. <i>Lecture Notes in Electrical Engineering</i> , <b>2012</b> , 105-108.2	8.2	4
5	MOx/CNTs Hetero-Structures for Gas Sensing Applications: Role of CNTs Defects. <i>Procedia Engineering</i> , <b>2012</b> , 47, 1259-1262		3
4	Fabrication of BN membranes containing high density of cylindrical pores using an elegant approach. <i>RSC Advances</i> , <b>2017</b> , 7, 20709-20715	3.7	2
3	Ultra simple catalyst layer preparation for the growth of vertically aligned CNTs and CNT-based nanostructures. <i>CrystEngComm</i> , <b>2012</b> , 14, 48-52	3.3	2
2	(Invited) Non-Aqueous Atomic Layer Deposition of SnO <sub>2</sub> for Gas Sensing Application. <i>ECS Transactions</i> , <b>2018</b> , 86, 55-65	1	1
1	Asymmetry-Induced Redistribution in Sn(IV)/Ti(IV) Hetero-Bimetallic Alkoxide Precursors and Its Impact on Thin-Film Deposition by Metal-Organic Chemical Vapor Deposition. <i>Crystal Growth and Design</i> ,	3.5	0