

# Jong-Hwan Yoon

## List of Publications by Year in descending order

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41  
papers

149  
citations

1478505

6  
h-index

1281871

11  
g-index

41  
all docs

41  
docs citations

41  
times ranked

121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of nickel-based nanocrystal monolayers for nonvolatile memory applications. Applied Physics Letters, 2008, 92, 253108.	3.3	25
2	Photoluminescence from Si nanocrystals exposed to a hydrogen plasma. Journal of Applied Physics, 2008, 104, 083518.	2.5	15
3	Direct growth of nickel disilicide nanocrystals in silicon dioxide films. Journal of Applied Physics, 2006, 99, 116106.	2.5	12
4	Synthesis of silica nanowires by PECVD at low temperature using Zn as a catalyst. Applied Physics A: Materials Science and Processing, 2012, 108, 509-513.	2.3	9
5	Fabrication of polycrystalline silicon films by Al-induced crystallization of silicon-rich oxide films. Physica Status Solidi - Rapid Research Letters, 2016, 10, 668-672.	2.4	8
6	Oxygen-passivated enhancement of photoluminescence from SiO <sub>2</sub> films containing Si nanocrystals. Current Applied Physics, 2011, 11, 827-829.	2.4	7
7	Synthesis and memory properties of a self-assembled Al@Al <sub>2</sub> O <sub>3</sub> core-shell nanoparticle layer for floating gate devices. Applied Physics Letters, 2014, 104, 233101.	3.3	6
8	Increasing The Dark Conductivity Activation Energy in Undoped Microcrystalline Silicon by Post-Growth Anneals. Materials Research Society Symposia Proceedings, 2001, 664, 2361.	0.1	5
9	Light-induced effects in hydrogenated amorphous silicon films grown from high hydrogen dilution of silane. Journal of Non-Crystalline Solids, 2002, 299-302, 487-491.	3.1	5
10	Photoluminescence in microcrystalline silicon films grown from argon diluted silane. Journal of Non-Crystalline Solids, 2004, 338-340, 465-468.	3.1	5
11	Enhanced formation of Si nanocrystals in silicon-rich oxide implanted with Ni. Materials Letters, 2014, 136, 237-240.	2.6	5
12	Alternative vapor-liquid-solid process in Au-assisted growth of silica nanowires. Materials Letters, 2014, 123, 131-134.	2.6	5
13	Hindering the light-induced instability in a-Si:H by hydrogen clusters. Journal of Non-Crystalline Solids, 2000, 266-269, 455-458.	3.1	4
14	Intrinsic microcrystalline silicon by postgrowth anneals. Journal of Materials Research, 2001, 16, 1531-1534.	2.6	4
15	Growth of crystalline grains in microcrystalline silicon films. Physical Review B, 2006, 73, .	3.2	4
16	Synthesis and enhanced light-emission of Si nanocrystals embedded in silicon oxidenanowires. Materials Letters, 2013, 96, 166-169.	2.6	4
17	Enhanced light emission from Si nanocrystals produced using SiO <sub>x</sub> /SiO <sub>2</sub> multilayered silicon-rich oxides. Applied Surface Science, 2015, 344, 213-216.	6.1	4
18	Pulsed-Light-Induced Metastable Defect Creation in Hydrogenated Amorphous Silicon. Materials Research Society Symposia Proceedings, 1995, 377, 373.	0.1	3

#	ARTICLE	IF	CITATIONS
19	Memory Properties of Nickel Silicide Nanocrystal Layer for Possible Application to Nonvolatile Memory Devices. IEEE Transactions on Electron Devices, 2009, 56, 3236-3239.	3.0	3
20	Memory properties of Al-based nanoparticle floating gate for nonvolatile memory applications. Journal of the Korean Physical Society, 2012, 61, 799-802.	0.7	3
21	Fabrication of Sn@Al <sub>2</sub> O <sub>3</sub> Core-shell Nanoparticles for Stable Nonvolatile Memory Applications. Materials, 2019, 12, 3111.	2.9	3
22	Hydrogen-induced-intrinsic transport in undoped microcrystalline silicon. Applied Physics A: Materials Science and Processing, 2009, 97, 257-261.	2.3	2
23	Synthesis and charge storage properties of double-layered NiSi nanocrystals. Journal of Nanoparticle Research, 2010, 12, 2387-2391.	1.9	2
24	Recombination Process in the As-Deposited State of Hydrogenated Amorphous Silicon. Materials Research Society Symposia Proceedings, 1993, 297, 455.	0.1	1
25	Correlation between the improved stability and low temperature hydrogen effusion in hydrogenated amorphous silicon films grown from hydrogen dilution of silane. Solid State Communications, 2002, 124, 289-292.	1.9	1
26	Role of Hydrogen in the Grain Growth in Microcrystalline Silicon Films. Materials Research Society Symposia Proceedings, 2006, 910, 2.	0.1	1
27	Synthesis of nickel disilicide quantum dots in silicon dioxide films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 313-314, 365-368.	4.7	1
28	Ni-catalyzed Growth of Silica Nanowires From Amorphous Silicon Films and Growth Mechanism. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700378.	1.8	1
29	Growth of an Al <sub>2</sub> O <sub>3</sub> Layer and Sn@Al <sub>2</sub> O <sub>3</sub> Core-Shell Nanoparticles by Using a Silicon Oxide/Aluminum Bilayer. Journal of the Korean Physical Society, 2020, 76, 171-175.	0.7	1
30	Annealing of Metastable Recombination Centers in Hydrogenated Amorphous Silicon. Materials Research Society Symposia Proceedings, 1992, 258, 413.	0.1	0
31	Effect of Deposition-Induced Annealable Defects on Light-Induced Defect Generation in a-Si:H. Materials Research Society Symposia Proceedings, 1993, 297, 565.	0.1	0
32	Light-induced Stability of Layered Amorphous Hydrogenated Silicon Grown with Alternating Substrate Temperature. Materials Research Society Symposia Proceedings, 1996, 420, 387.	0.1	0
33	Synthesis of Nickel Disilicide Nanocrystal Monolayers for Nonvolatile Memory Applications. Materials Research Society Symposia Proceedings, 2008, 1071, 1.	0.1	0
34	Charge Storage Properties of Nickel Silicide Nanocrystal Layer Embedded in Silicon Dioxide. Materials Research Society Symposia Proceedings, 2009, 1160, 1.	0.1	0
35	Synthesis of Cobalt-Based Nanocrystal Layer in Silicon Dioxide for Nonvolatile Memory Applications. Journal of Nanoscience and Nanotechnology, 2011, 11, 1042-1046.	0.9	0
36	Growth of aluminum oxide nanorods using sandwich structures composed of Al and SiO <sub>2</sub> layers. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 406-409.	1.8	0

#	ARTICLE	IF	CITATIONS
37	Self-assembly and growth mechanism of au nanoparticle chains in silica nanowires. Journal of the Korean Physical Society, 2015, 66, 828-831.	0.7	0
38	Generation of White Light by Hybridization of Red“Green“Blue“ Luminescent Materials. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900411.	1.8	0
39	Fabrication of ZnO Nanosheets by Chemical Annealing of Pre-Synthesized Zn Sheets. Journal of the Korean Physical Society, 2019, 74, 182-186.	0.7	0
40	Crystallization of silicon oxide films using Al as a catalyst. Journal of the Korean Physical Society, 0, , 1.	0.7	0
41	Origin of the Low-Energy Photoluminescence in Microcrystalline Silicon Films. Materials Research Society Symposia Proceedings, 2003, 762, 1931.	0.1	0