

Aji A Anappara

List of Publications by Year in descending order

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42
papers

1,452
citations

566801

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h-index

360668

35
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all docs

42
docs citations

42
times ranked

1754
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-cycle switch-on of ultrastrong light-matter interaction. <i>Nature</i> , 2009, 458, 178-181.	13.7	498
2	Signatures of the ultrastrong light-matter coupling regime. <i>Physical Review B</i> , 2009, 79, .	1.1	268
3	Cool white, persistent room-temperature phosphorescence in carbon dots embedded in a silica gel matrix. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15137-15144.	1.3	89
4	Electrical control of polariton coupling in intersubband microcavities. <i>Applied Physics Letters</i> , 2005, 87, 051105.	1.5	68
5	White-Light-Emitting Carbon Dots Prepared by the Electrochemical Exfoliation of Graphite. <i>ChemPhysChem</i> , 2017, 18, 292-298.	1.0	61
6	White light emission of carbon dots by creating different emissive traps. <i>Journal of Luminescence</i> , 2016, 178, 128-133.	1.5	46
7	Tailored periodic Si nanopillar based architectures as highly sensitive universal SERS biosensing platform. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 264-271.	4.0	42
8	Microwave-assisted hydrothermal synthesis of UV-emitting carbon dots from tannic acid. <i>New Journal of Chemistry</i> , 2016, 40, 8110-8117.	1.4	40
9	Impedance spectroscopic studies of sol-gel derived subcritically dried silica aerogels. <i>Acta Materialia</i> , 2004, 52, 369-375.	3.8	38
10	Tunnel-assisted manipulation of intersubband polaritons in asymmetric coupled quantum wells. <i>Applied Physics Letters</i> , 2006, 89, 171109.	1.5	33
11	Enhanced room temperature ferromagnetism in electrodeposited Co-doped ZnO nanostructured thin films by controlling the oxygen vacancy defects. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	33
12	Long Life-time Room-temperature Phosphorescence of Carbon Dots in Aluminum Sulfate. <i>ChemistrySelect</i> , 2017, 2, 4058-4062.	0.7	31
13	Cavity polaritons from excited-subband transitions. <i>Applied Physics Letters</i> , 2007, 91, 231118.	1.5	25
14	Aqueous dispersions of highly luminescent boron-rich nanosheets by the exfoliation of polycrystalline titanium diboride. <i>New Journal of Chemistry</i> , 2019, 43, 9953-9960.	1.4	19
15	Ellagic acid-functionalized fluorescent carbon dots for ultrasensitive and selective detection of mercuric ions via quenching. <i>Journal of Luminescence</i> , 2017, 192, 761-766.	1.5	18
16	Improved broadband and omnidirectional light absorption in silicon nanopillars achieved through gradient mesoporosity induced leaky waveguide modulation. <i>RSC Advances</i> , 2016, 6, 109157-109167.	1.7	16
17	Impedance spectral studies of sol-gel alumina-silver nanocomposites. <i>Acta Materialia</i> , 2003, 51, 3511-3519.	3.8	13
18	Influence of defects on electrical properties of electrodeposited co-doped ZnO nanocoatings. <i>Materials Research Express</i> , 2017, 4, 015001.	0.8	13

#	ARTICLE	IF	CITATIONS
19	Switching ultrastrong light-matter coupling on a subcycle scale. <i>Journal of Applied Physics</i> , 2011, 109, 102418.	1.1	9
20	Tuning of deep level emission in highly oriented electrodeposited ZnO nanorods by post growth annealing treatments. <i>Journal of Applied Physics</i> , 2014, 116, 074309.	1.1	9
21	Enhanced photothermal effect in reduced graphene oxide in solid-state. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	9
22	Multi-functional carbon dots for visual detection of picric acid and white-light emission. <i>Materials Research Bulletin</i> , 2021, 138, 111223.	2.7	9
23	Giant intersubband polariton splitting in InAs/AlSb microcavities. <i>Solid State Communications</i> , 2007, 142, 311-313.	0.9	8
24	Charge transport studies on Si nanopillars for photodetectors fabricated using vapor phase metal-assisted chemical etching. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	8
25	Photoacoustic thermal characterization of Al ₂ O ₃ -Ag ceramic nanocomposites. <i>Materials Chemistry and Physics</i> , 2008, 111, 38-41.	2.0	7
26	Evolution mechanism of mesoporous silicon nanopillars grown by metal-assisted chemical etching and nanosphere lithography: correlation of Raman spectra and red photoluminescence. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	7
27	Facile synthesis of aqueous-dispersed luminescent nanosheets from non-layered lanthanum hexaboride. <i>RSC Advances</i> , 2020, 10, 31788-31793.	1.7	7
28	Photo-to-thermal conversion: effective utilization of futile solid-state carbon quantum dots (CQDs) for energy harvesting applications. <i>New Journal of Chemistry</i> , 2020, 44, 10662-10670.	1.4	6
29	Magnesium diboride: An effective light-to-heat conversion material in solid-state. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	5
30	Acetic acid derived carbon dots as efficient pH and bio-molecule sensor. <i>International Journal of Environmental Analytical Chemistry</i> , 2021, 101, 506-512.	1.8	5
31	Comparative photoluminescence study of nitrogen-doped carbon dots co-doped with boron and sulphur. <i>Luminescence</i> , 2022, 37, 1475-1481.	1.5	4
32	Controlling polariton coupling in intersubband microcavities. <i>Superlattices and Microstructures</i> , 2007, 41, 308-312.	1.4	3
33	How fast electrons and photons mix: Sub-cycle switching of intersubband cavity polaritons. <i>Journal of Physics: Conference Series</i> , 2009, 193, 012060.	0.3	2
34	Photothermal effect in solid-state MWCNT: Possible signatures of thermal anisotropy. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	2
35	Specific ultralow level chemo-recognition using Graphene-fluorophore supramolecular assembly: Fine-tuning the fluorophore framework. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 266, 120408.	2.0	1
36	Controlling Polariton Coupling in Intersubband Microcavities. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0

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37	Tailoring light-matter interaction in intersubband microcavities. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1906-1908.	1.3	0
38	Ultra-intense THz source and extreme THz nonlinearities in condensed matter. , 2009, , .		0
39	Extreme THz nonlinearities in bulk and nanostructured semiconductors. Proceedings of SPIE, 2010, , .	0.8	0
40	Terahertz quantum optics with solid-state systems. , 2010, , .		0
41	Broadband absorption and photothermal conversion in titanium diboride. AIP Conference Proceedings, 2020, , .	0.3	0
42	Switch-on of Ultrastrong Light-Matter Interaction Faster than a Cycle of Light. , 2009, , .		0