## Sivacarendran Balendhran

List of Publications by Year in descending order

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56 5,255 35
papers citations h-index

54
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8318
d citing authors

161849

59 all docs

59 docs citations 59 times ranked

#	Article	IF	CITATIONS
1	Mixed Ionicâ€Electronic Charge Transport in Layered Blackâ€Phosphorus for Lowâ€Power Memory. Advanced Functional Materials, 2022, 32, 2107068.	14.9	16
2	Compact Chemical Identifier Based on Plasmonic Metasurface Integrated with Microbolometer Array. Laser and Photonics Reviews, 2022, 16, .	8.7	17
3	Compact Chemical Identifier Based on Plasmonic Metasurface Integrated with Microbolometer Array (Laser Photonics Rev. 16(4)/2022). Laser and Photonics Reviews, 2022, 16, 2270016.	8.7	0
4	Nonvolatile Resistive Switching in Layered InSe via Electrochemical Cation Diffusion. Advanced Electronic Materials, 2022, 8, .	5.1	8
5	Experimental and theoretical characterization of x-ray induced excitons, magnons, and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>d</mml:mi>d&lt; transitions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoO</mml:mi><mml:mn>3<mml:mi>MoO</mml:mi><mml:mn>3<mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:< td=""><td>2.4</td><td>О</td></mml:<></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:mn></mml:mn></mml:msub></mml:math></mml:mrow></mml:math>	2.4	О
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9	Longwave Infrared Photoresponse in Copper 7,7,8,8-tetracyano-2,3,5,6-tetraflouroquinodimethane (CuTCNQF4)., 2021,,.		O
10	Actively variable-spectrum optoelectronics with black phosphorus. Nature, 2021, 596, 232-237.	27.8	132
11	Copper Tetracyanoquinodimethane (CuTCNQ): A Metal–Organic Semiconductor for Room-Temperature Visible to Long-Wave Infrared Photodetection. ACS Applied Materials & Samp; Interfaces, 2021, 13, 38544-38552.	8.0	10
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18	Edge-oriented and steerable hyperbolic polaritons in anisotropic van der Waals nanocavities. Nature Communications, 2020, $11$ , $6086$ .	12.8	67

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19	Monocrystalline Antimonene Nanosheets via Physical Vapor Deposition. Advanced Materials Interfaces, 2020, 7, 2001678.	3.7	14
20	Electrically Activated UV-A Filters Based on Electrochromic MoO <sub>3–<i>×</i></sub> . ACS Applied Materials & Activated UV-A Filters Based on Electrochromic MoO <sub>3–<i>×</i></sub> . ACS Applied Materials & Activated UV-A Filters Based on Electrochromic MoO <sub>3–<i>×</i></sub> . ACS Applied Materials & Activated UV-A Filters Based on Electrochromic MoO <sub>3–<i>×</i></sub> . ACS Applied Materials & Activated UV-A Filters Based on Electrochromic MoO <sub>3–<i>×</i></sub> . ACS Applied Materials & Activated UV-A Filters Based on Electrochromic MoO <sub>3–<i>×</i></sub> . ACS Applied Materials & Activated UV-A Filters Based on Electrochromic MoO <sub>3–<i>×</i></sub> . ACS Applied Materials & Activated UV-A Filters Based on Electrochromic MoO <sub>3–<i>×</i></sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3–<i>×</i></sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3—</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3â§</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3â§</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3â§</sub> . ACS Applied UV-A Filters Based on Electrochromic MoO <sub>3â§</sub> . ACS Applied UV-A Filte	8.0	45
21	Visible to Long-Wave Infrared Photodetectors based on Copper Tetracyanoquinodimethane (CuTCNQ) Crystals., 2020,,.		O
22	Dual Selective Gas Sensing Characteristics of 2D α-MoO <sub>3â€"<i>x</i></sub> via a Facile Transfer Process. ACS Applied Materials & Distriction (11, 40189-40195).	8.0	47
23	Large-area synthesis of 2D MoO <sub> 3â^' <i>x</i> </sub> for enhanced optoelectronic applications. 2D Materials, 2019, 6, 035031.	4.4	48
24	Generating strong room-temperature photoluminescence in black phosphorus using organic molecules. 2D Materials, 2019, 6, 015009.	4.4	15
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26	Reversible resistive switching behaviour in CVD grown, large area MoO <sub>x</sub> . Nanoscale, 2018, 10, 19711-19719.	5 <b>.</b> 6	46
27	Effects of plasma-treatment on the electrical and optoelectronic properties of layered black phosphorus. Applied Materials Today, 2018, 12, 244-249.	4.3	38
28	Ambient Protection of Fewâ€Layer Black Phosphorus via Sequestration of Reactive Oxygen Species. Advanced Materials, 2017, 29, 1700152.	21.0	141
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30	Two-dimensional MoO <sub>3</sub> via a top-down chemical thinning route. 2D Materials, 2017, 4, 035008.	4.4	14
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38	Nanoscale Resistive Switching in Amorphous Perovskite Oxide (⟨i⟩aâ€SrTiO⟨sub⟩3⟨/sub⟩) Memristors. Advanced Functional Materials, 2014, 24, 6741-6750.	14.9	111
39	CNT/PDMS composite membranes for H2 and CH4 gas separation. International Journal of Hydrogen Energy, 2013, 38, 10494-10501.	7.1	97
40	3-D nanorod arrays of metal–organic KTCNQ semiconductor on textiles for flexible organic electronics. RSC Advances, 2013, 3, 17654.	3.6	40
41	Semiconductors: Twoâ€Dimensional Molybdenum Trioxide and Dichalcogenides (Adv. Funct. Mater.) Tj ETQq1 1 0	.784314 r 14.9	gBT /Over
42	Electrochemical Control of Photoluminescence in Two-Dimensional MoS <sub>2</sub> Nanoflakes. ACS Nano, 2013, 7, 10083-10093.	14.6	282
43	Field Effect Biosensing Platform Based on 2D α-MoO <sub>3</sub> . ACS Nano, 2013, 7, 9753-9760.	14.6	161
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