

K D M Rao

List of Publications by Year in descending order

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27
papers

1,120
citations

516215

16
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26
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docs citations

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times ranked

1629
citing authors

#	ARTICLE	IF	CITATIONS
1	Hotâ€Spin Casting Synthesis of Freestanding Cs ₂ AgBiBr ₆ Double Perovskite Facetâ€Oriented Microcrystals for Efficient Photodetectors. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100570.	1.9	11
2	Layer-by-Layer Assembly-Based Heterointerfaces for Modulating the Electronic Properties of Ti ₃ C ₂ T _x MXene. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59104-59114.	4.0	4
3	Transparent, flexible MAPbI ₃ perovskite microwire arrays passivated with ultra-hydrophobic supramolecular self-assembly for stable and high-performance photodetectors. <i>Nanoscale</i> , 2020, 12, 11986-11996.	2.8	14
4	Large-area transparent flexible guanidinium incorporated MAPbI ₃ microstructures for high-performance photodetectors with enhanced stability. <i>Nanoscale Horizons</i> , 2020, 5, 696-704.	4.1	15
5	Selfâ€Powered and Broadband Photodetectors with GaN: Layered rGO Hybrid Heterojunction. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900923.	1.9	40
6	Narrowing Desiccating Crack Patterns by an Azeotropic Solvent for the Fabrication of Nanomesh Electrodes. <i>Langmuir</i> , 2019, 35, 16130-16135.	1.6	7
7	Solution-Based Fast Fabrication of a High-Performance Unlimited Area Au Nanostructure/Si Heterojunction Photodetector. <i>ACS Applied Electronic Materials</i> , 2019, 1, 577-584.	2.0	10
8	Transparent, Flexible Silicon Nanostructured Wire Networks with Seamless Junctions for High-Performance Photodetector Applications. <i>ACS Nano</i> , 2018, 12, 4727-4735.	7.3	51
9	Parallel cracks from a desiccating colloidal layer under gravity flow and their use in fabricating metal micro-patterns. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 118, 232-237.	1.9	12
10	Cosmetically Adaptable Transparent Strain Sensor for Sensitively Delineating Patterns in Small Movements of Vital Human Organs. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44126-44133.	4.0	23
11	Highly Conformal Ni Micromesh as a Current Collecting Front Electrode for Reduced Cost Si Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8634-8640.	4.0	24
12	Defining Switching Efficiency of Multilevel Resistive Memory with PdO as an Example. <i>Advanced Electronic Materials</i> , 2016, 2, 1500286.	2.6	14
13	Visibly Transparent Heaters. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12559-12575.	4.0	194
14	Transparent Pd Wire Network-Based Areal Hydrogen Sensor with Inherent Joule Heater. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23419-23424.	4.0	28
15	Transparent Metal Network with Low Haze and High Figure of Merit applied to Front and Back Electrodes in Semitransparent ITOâ€free Polymer Solar Cells. <i>Energy Technology</i> , 2015, 3, 638-645.	1.8	24
16	Towards low cost materials and methods for transparent electrodes. <i>Current Opinion in Chemical Engineering</i> , 2015, 8, 60-68.	3.8	67
17	Fabrication of Large Area, Highâ€Performance, Transparent Conducting Electrodes Using a Spontaneously Formed Crackle Network as Template. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400090.	1.9	97
18	Transparent and flexible capacitor fabricated using a metal wire network as a transparent conducting electrode. <i>RSC Advances</i> , 2014, 4, 31108-31112.	1.7	22

#	ARTICLE	IF	CITATIONS
19	A highly crystalline single Au wire network as a high temperature transparent heater. <i>Nanoscale</i> , 2014, 6, 5645.	2.8	102
20	Spray Coating of Crack Templates for the Fabrication of Transparent Conductors and Heaters on Flat and Curved Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13688-13696.	4.0	130
21	Metal wire network based transparent conducting electrodes fabricated using interconnected crackled layer as template. <i>Materials Research Express</i> , 2014, 1, 026301.	0.8	58
22	A cracked polymer templated metal network as a transparent conducting electrode for ITO-free organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15107-15110.	1.3	58
23	Large area solution processed transparent conducting electrode based on highly interconnected Cu wire network. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2089.	2.7	81
24	Solution-processed soldering of carbon nanotubes for flexible electronics. <i>Nanotechnology</i> , 2013, 24, 075301.	1.3	4
25	Screen-Induced Photoresponse Mapping for Large-Area Photovoltaics. <i>Energy Technology</i> , 2013, 1, 770-775.	1.8	3
26	Metallic Conduction in NiS ₂ Nanocrystalline Structures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10462-10467.	1.5	20
27	Angled-stencil lithography based metal mesh/Ti ₃ C ₂ T _x MXene hybrid transparent electrodes for low-power and high-performance wearable thermotherapy. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	7