

Matthew R Field

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

3,339
citations

279798

23
h-index

434195

31
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32
all docs

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docs citations

32
times ranked

6045
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Organic Charge Transfer Complexes of Pb(TCNQ) ₂ and Pb(TCNQF ₄) ₂ as New Catalysts for Electron Transfer Reactions. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001111.	3.7	8
2	Long-range ordered TiO ₂ /Au hollow urchins: topology control for maskless electrodeposition. <i>Journal of Materials Chemistry A</i> , 2020, 8, 26035-26044.	10.3	8
3	Zinc Titanate Nanoarrays with Superior Optoelectrochemical Properties for Chemical Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29255-29267.	8.0	23
4	Antisymmetric magnetoresistance in van der Waals Fe ₃ GeTe ₂ /graphite/Fe ₃ GeTe ₂ trilayer heterostructures. <i>Science Advances</i> , 2019, 5, eaaw0409.	10.3	119
5	Hard magnetic properties in nanoflake van der Waals Fe ₃ GeTe ₂ . <i>Nature Communications</i> , 2018, 9, 1554.	12.8	272
6	Broadband light active MTCNQ-based metal-organic semiconducting hybrids for enhanced redox catalysis. <i>Applied Materials Today</i> , 2018, 13, 107-115.	4.3	16
7	Defining the role of humidity in the ambient degradation of few-layer black phosphorus. <i>2D Materials</i> , 2017, 4, 015025.	4.4	110
8	Degradation of black phosphorus is contingent on UV-blue light exposure. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	7.9	95
9	High-Performance Field Effect Transistors Using Electronic Inks of 2D Molybdenum Oxide Nanoflakes. <i>Advanced Functional Materials</i> , 2016, 26, 91-100.	14.9	164
10	Candle-Soot Derived Photoactive and Superamphiphobic Fractal Titania Electrode. <i>Chemistry of Materials</i> , 2016, 28, 7919-7927.	6.7	36
11	Robust Nanostructured Silver and Copper Fabrics with Localized Surface Plasmon Resonance Property for Effective Visible Light Induced Reductive Catalysis. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500632.	3.7	46
12	Exfoliation Solvent Dependent Plasmon Resonances in Two-Dimensional Sub-Stoichiometric Molybdenum Oxide Nanoflakes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3482-3493.	8.0	111
13	Enhanced Gas Permeation through Graphene Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13700-13712.	3.1	70
14	Self-assembled V ₂ O ₅ interconnected microspheres produced in a fish-water electrolyte medium as a high-performance lithium-ion-battery cathode. <i>Nano Research</i> , 2015, 8, 3591-3603.	10.4	27
15	Supplementing Cold Plasma with Heat Enables Doping and Nanostructuring of Metal Oxides. <i>Plasma Processes and Polymers</i> , 2014, 11, 897-902.	3.0	1
16	Back Cover: Plasma Process. <i>Polym. 9</i> •2014. <i>Plasma Processes and Polymers</i> , 2014, 11, 904-904.	3.0	0
17	Two dimensional $\hat{\Gamma}$ -MoO ₃ nanoflakes obtained using solvent-assisted grinding and sonication method: Application for H ₂ gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 196-204.	7.8	190
18	Exploiting the Facile Oxidation of Evaporated Gold Films to Drive Electroless Silver Deposition for the Creation of Bimetallic Au/Ag Surfaces. <i>ChemElectroChem</i> , 2014, 1, 76-82.	3.4	13

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19	Tunable Plasmon Resonances in Two-Dimensional Molybdenum Oxide Nanoflakes. <i>Advanced Materials</i> , 2014, 26, 3931-3937.	21.0	308
20	Electrospun Granular Hollow SnO ₂ Nanofibers Hydrogen Gas Sensors Operating at Low Temperatures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3129-3139.	3.1	166
21	Substoichiometric two-dimensional molybdenum oxide flakes: a plasmonic gas sensing platform. <i>Nanoscale</i> , 2014, 6, 12780-12791.	5.6	77
22	A vein-like nanoporous network of Nb ₂ O ₅ with a higher lithium intercalation discharge cut-off voltage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11019.	10.3	77
23	Electrochemical Control of Photoluminescence in Two-Dimensional MoS ₂ Nanoflakes. <i>ACS Nano</i> , 2013, 7, 10083-10093.	14.6	282
24	Electrochromic properties of TiO ₂ nanotubes coated with electrodeposited MoO ₃ . <i>Nanoscale</i> , 2013, 5, 10353.	5.6	61
25	Nanoporous Nb ₂ O ₅ hydrogen gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 149-156.	7.8	123
26	Anodic formation of a thick three-dimensional nanoporous WO ₃ film and its photocatalytic property. <i>Electrochemistry Communications</i> , 2013, 27, 128-132.	4.7	58
27	Aqueous phase synthesis of copper nanoparticles: a link between heavy metal resistance and nanoparticle synthesis ability in bacterial systems. <i>Nanoscale</i> , 2013, 5, 2300-2306.	5.6	158
28	Enhanced Charge Carrier Mobility in Two-Dimensional High Dielectric Molybdenum Oxide. <i>Advanced Materials</i> , 2013, 25, 109-114.	21.0	355
29	Enhanced Charge Carrier Mobility in Two-Dimensional High Dielectric Molybdenum Oxide (<i>Adv. Mater.</i>)	21.0	355
30	The anodized crystalline WO ₃ nanoporous network with enhanced electrochromic properties. <i>Nanoscale</i> , 2012, 4, 5980.	5.6	164
31	Elevated Temperature Anodized Nb ₂ O ₅ : A Photoanode Material with Exceptionally Large Photoconversion Efficiencies. <i>ACS Nano</i> , 2012, 6, 4045-4053.	14.6	174
32	Fabrication, Structural Characterization and Testing of a Nanostructured Tin Oxide Gas Sensor. <i>IEEE Sensors Journal</i> , 2009, 9, 563-568.	4.7	18