

# Reza J Kashtiban

## List of Publications by Year in descending order

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62  
papers

1,897  
citations

257450

24  
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265206

42  
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67  
all docs

67  
docs citations

67  
times ranked

3719  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zigzag HgTe Nanowires Modify the Electron-Phonon Interaction in Chirality-Refined Single-Walled Carbon Nanotubes. ACS Nano, 2022, 16, 6789-6800.	14.6	10
2	Ultrafast, high modulation depth terahertz modulators based on carbon nanotube thin films. Carbon, 2021, 173, 245-252.	10.3	22
3	Systematic Modification of UiO-66 Metal-Organic Frameworks for Glucose Conversion into 5-Hydroxymethyl Furfural in Water. ChemCatChem, 2021, 13, 2517-2529.	3.7	26
4	Hydrothermal Synthesis of Iridium-Substituted NaTaO <sub>3</sub> Perovskites. Nanomaterials, 2021, 11, 1537.	4.1	3
5	Linear and Helical Cesium Iodide Atomic Chains in Ultranarrow Single-Walled Carbon Nanotubes: Impact on Optical Properties. ACS Nano, 2021, 15, 13389-13398.	14.6	20
6	Exploiting the flexibility of the pyrochlore composition for acid-resilient iridium oxide electrocatalysts in proton exchange membranes. Journal of Materials Chemistry A, 2021, 9, 25114-25127.	10.3	8
7	Electric Field-Controlled Synthesis and Characterisation of Single Metal-Organic Framework (MOF) Nanoparticles. Angewandte Chemie, 2020, 132, 19864-19869.	2.0	3
8	<i>In situ</i> XAFS of acid-resilient iridate pyrochlore oxygen evolution electrocatalysts under operating conditions. Physical Chemistry Chemical Physics, 2020, 22, 18770-18773.	2.8	11
9	(M,Ru)O <sub>2</sub> (M = Mg, Zn, Cu, Ni, Co) Rutilites and Their Use as Oxygen Evolution Electrocatalysts in Membrane Electrode Assemblies under Acidic Conditions. Chemistry of Materials, 2020, 32, 6150-6160.	6.7	17
10	Electric Field-Controlled Synthesis and Characterisation of Single Metal-Organic Framework (MOF) Nanoparticles. Angewandte Chemie - International Edition, 2020, 59, 19696-19701.	13.8	31
11	Structures of mixed manganese ruthenium oxides (Mn <sub>1-x</sub> Ru <sub>x</sub> )O <sub>2</sub> crystallised under acidic hydrothermal conditions. Dalton Transactions, 2020, 49, 2661-2670.	3.3	8
12	Ultrafast Optoelectronic Processes in 1D Radial van der Waals Heterostructures: Carbon, Boron Nitride, and MoS <sub>2</sub> Nanotubes with Coexisting Excitons and Highly Mobile Charges. Nano Letters, 2020, 20, 3560-3567.	9.1	40
13	Towards a 3D GeSbTe phase change memory with integrated selector by non-aqueous electrodeposition. Faraday Discussions, 2019, 213, 339-355.	3.2	14
14	Replacement of Chromium by Non-Toxic Metals in Lewis-Acid MOFs: Assessment of Stability as Glucose Conversion Catalysts. Catalysts, 2019, 9, 437.	3.5	35
15	Nanocrystalline Transition-Metal Gallium Oxide Spinel from Acetylacetonate Precursors via Solvothermal Synthesis. Materials, 2019, 12, 838.	2.9	4
16	Giant Negative Terahertz Photoconductivity in Controllably Doped Carbon Nanotube Networks. ACS Photonics, 2019, 6, 1058-1066.	6.6	38
17	Pair Distribution Function Analysis of Structural Disorder by Nb <sup>5+</sup> Inclusion in Ceria: Evidence for Enhanced Oxygen Storage Capacity from Under-Coordinated Oxide. Journal of the American Chemical Society, 2018, 140, 1588-1591.	13.7	32
18	Exploration of the Smallest Diameter Tin Nanowires Achievable with Electrodeposition: Sub 7 nm Sn Nanowires Produced by Electrodeposition from a Supercritical Fluid. Nano Letters, 2018, 18, 941-947.	9.1	21

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19	Incorporation of Sb <sup>5+</sup> into CeO <sub>2</sub> : local structural distortion of the fluorite structure from a pentavalent substituent. Dalton Transactions, 2018, 47, 9693-9700.	3.3	3
20	Scalable Patterning of Encapsulated Black Phosphorus. Nano Letters, 2018, 18, 5373-5381.	9.1	43
21	An expanded MIL-53-type coordination polymer with a reactive pendant ligand. CrystEngComm, 2018, 20, 4355-4358.	2.6	5
22	Electrodeposition of tin nanowires from a dichloromethane based electrolyte. RSC Advances, 2018, 8, 24013-24020.	3.6	11
23	Electromagnetic Functionalization of Wide-Bandgap Dielectric Oxides by Boron Interstitial Doping. Advanced Materials, 2018, 30, e1802025.	21.0	5
24	Atomic Defects and Doping of Monolayer NbSe <sub>2</sub> . ACS Nano, 2017, 11, 2894-2904.	14.6	63
25	Time-Resolved Powder X-ray Diffraction of the Solvothermal Crystallization of Cobalt Gallate Spinel Photocatalyst Reveals Transient Layered Double Hydroxides. Chemistry of Materials, 2017, 29, 5053-5057.	6.7	14
26	Compliance-Free ZrO <sub>2</sub> /ZrO <sub>2-x</sub> /ZrO <sub>2</sub> Resistive Memory with Controllable Interfacial Multistate Switching Behaviour. Nanoscale Research Letters, 2017, 12, 384.	5.7	31
27	Ba <sub>4</sub> Ru <sub>3</sub> O <sub>10</sub> (OH) <sub>1.8</sub> : a new member of the layered hexagonal perovskite family crystallised from water. Chemical Communications, 2016, 52, 6375-6378.	4.1	10
28	Coherence lifetime broadened optical transitions in a 2 atom diameter HgTe nanowire: a temperature dependent resonance Raman study. RSC Advances, 2016, 6, 95387-95395.	3.6	4
29	Local Site Layering in Rare Earth Orthochromite Perovskites by Solution Synthesis. Chemistry - A European Journal, 2016, 22, 18362-18367.	3.3	14
30	Surface modification and porosimetry of vertically aligned hexagonal mesoporous silica films. RSC Advances, 2016, 6, 113432-113441.	3.6	11
31	Van der Waals pressure and its effect on trapped interlayer molecules. Nature Communications, 2016, 7, 12168.	12.8	137
32	Resonance Raman Spectroscopy of Extreme Nanowires and Other 1D Systems. Journal of Visualized Experiments, 2016, .	0.3	1
33	Selective Imaging of Discrete Polyoxometalate Ions on Graphene Oxide under Variable Voltage Conditions. ACS Nano, 2016, 10, 796-802.	14.6	7
34	Under pressure: Control of strain, phonons and bandgap opening in rippled graphene. Carbon, 2015, 91, 266-274.	10.3	55
35	Incorporation of square-planar Pd <sup>2+</sup> in fluorite CeO <sub>2</sub> : hydrothermal preparation, local structure, redox properties and stability. Journal of Materials Chemistry A, 2015, 3, 13072-13079.	10.3	40
36	Ordered mesoporous silica films with pores oriented perpendicular to a titanium nitride substrate. Physical Chemistry Chemical Physics, 2015, 17, 4763-4770.	2.8	39

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37	Control of chemical state of cerium in doped anatase TiO <sub>2</sub> by solvothermal synthesis and its application in photocatalytic water reduction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9890-9898.	10.3	27
38	Band gap expansion, shear inversion phase change behaviour and low-voltage induced crystal oscillation in low-dimensional tin selenide crystals. <i>Dalton Transactions</i> , 2014, 43, 7391-7399.	3.3	26
39	Investigation of some new hydro(solvo)thermal synthesis routes to nanostructured mixed-metal oxides. <i>Journal of Solid State Chemistry</i> , 2014, 214, 30-37.	2.9	8
40	Water-splitting Electrocatalysis in Acid Conditions Using Ruthenate-Iridate Pyrochlores. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10960-10964.	13.8	193
41	Raman Spectroscopy of Optical Transitions and Vibrational Energies of $\sim 1/4$ nm HgTe Extreme Nanowires within Single Walled Carbon Nanotubes. <i>ACS Nano</i> , 2014, 8, 9044-9052.	14.6	33
42	Characterization of Structural Disorder in $\beta$ -Ga <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2014, 118, 16188-16198.	3.1	107
43	Atomically resolved imaging of highly ordered alternating fluorinated graphene. <i>Nature Communications</i> , 2014, 5, 4902.	12.8	42
44	Structures and Magnetism of the Rare-Earth Orthochromite Perovskite Solid Solution La <sub>x</sub> Sm <sub>1-x</sub> CrO <sub>3</sub> . <i>Inorganic Chemistry</i> , 2013, 52, 12161-12169.	4.0	50
45	Bismuth Iridium Oxide Oxygen Evolution Catalyst from Hydrothermal Synthesis. <i>Chemistry of Materials</i> , 2012, 24, 4192-4200.	6.7	106
46	Instant MOFs: continuous synthesis of metal-organic frameworks by rapid solvent mixing. <i>Chemical Communications</i> , 2012, 48, 10642.	4.1	103
47	Structural variety in iridate oxides and hydroxides from hydrothermal synthesis. <i>Chemical Science</i> , 2011, 2, 1573.	7.4	22
48	Direct Hydrothermal Synthesis and Physical Properties of Rare-Earth and Yttrium Orthochromite Perovskites. <i>Chemistry of Materials</i> , 2011, 23, 48-56.	6.7	152
49	Erbium environments in erbium-silicon/silica light emitting nanostructures. <i>Journal of Physics: Conference Series</i> , 2011, 281, 012016.	0.4	0
50	Low-temperature fabrication of layered self-organized Ge clusters by RF-sputtering. <i>Nanoscale Research Letters</i> , 2011, 6, 341.	5.7	18
51	Structural and compositional study of Erbium-doped silicon nanocrystals by HAADF, EELS and HRTEM techniques in an aberration corrected STEM. <i>Journal of Physics: Conference Series</i> , 2010, 209, 012043.	0.4	4
52	Ge nanocrystals in alumina matrix: A structural study. <i>Journal of Physics: Conference Series</i> , 2010, 209, 012060.	0.4	3
53	Multilayers of Ge nanocrystals embedded in Al <sub>2</sub> O <sub>3</sub> matrix: Structural and electrical studies. <i>Microelectronic Engineering</i> , 2010, 87, 2508-2512.	2.4	8
54	Structural study of Si <sub>1-x</sub> Ge <sub>x</sub> nanocrystals embedded in SiO <sub>2</sub> films. <i>Thin Solid Films</i> , 2010, 518, 2569-2572.	1.8	9

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55	Raman study of stress effect on Ge nanocrystals embedded in Al <sub>2</sub> O <sub>3</sub> . Thin Solid Films, 2010, 518, 5378-5381.	1.8	22
56	Study of erbium-doped silicon nanocrystals in silica. Journal of Physics: Conference Series, 2010, 241, 012097.	0.4	3
57	Study of InGaN/GaN quantum dot systems by TEM techniques and photoluminescence spectroscopy. Journal of Physics: Conference Series, 2010, 209, 012038.	0.4	1
58	Nanocrystalline Cerium-Bismuth Oxides: Synthesis, Structural Characterization, and Redox Properties. Chemistry of Materials, 2010, 22, 6191-6201.	6.7	39
59	Spatially correlated erbium and Si nanocrystals in coimplanted SiO <sub>2</sub> after a single high temperature anneal. Journal of Applied Physics, 2010, 107, 044316.	2.5	12
60	Size and spatial homogeneity of SiGe quantum dots in amorphous silica matrix. Journal of Applied Physics, 2009, 106, 084319.	2.5	11
61	Investigation of the effect of growth interruption on the formation of InAs/GaAs quantum dot superlattice near the InAs critical thickness. Microelectronics Journal, 2009, 40, 479-482.	2.0	2
62	Optical and microstructural studies of InGaN/GaN quantum dot ensembles. Applied Physics Letters, 2009, 95, 111903.	3.3	7