

Polarons in materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Out-of-equilibrium lattice response to photo-induced charge-transfer in a MnFe Prussian blue analogue. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6773-6780.	5.5	9
2	Small Polarons in Two-Dimensional Pnictogens: A First-Principles Study. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4674-4680.	4.6	7
3	Investigation of vibration damping properties of electroactive polyanthracene/silicone oil dispersions. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 641-652.	2.5	0
4	Electronic State Unfolding for Plane Waves: Energy Bands, Fermi Surfaces, and Spectral Functions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12921-12928.	3.1	14
5	Optoelectronic Properties of Chalcogenide Perovskites by Many-Body Perturbation Theory. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5301-5307.	4.6	25
6	Small-polaron-induced infrared opacification in rutile TiO ₂ . <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	3
7	Polaron-Assisted Charge Transport in Li-Ion Battery Anode Materials. <i>ACS Applied Energy Materials</i> , 2021, 4, 8583-8591.	5.1	4
8	Rational Design of Semiconductor Heterojunctions for Photocatalysis. <i>Chemistry - A European Journal</i> , 2021, 27, 13306-13317.	3.3	44
9	Iso-valent doping of reducible oxides: a comparison of rutile (110) and anatase (101) TiO ₂ surfaces. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 494001.	1.8	5
10	There is plenty of room at the top: generation of hot charge carriers and their applications in perovskite and other semiconductor-based optoelectronic devices. <i>Light: Science and Applications</i> , 2021, 10, 174.	16.6	32
11	Diagrammatic quantum Monte Carlo study of an acoustic lattice polaron. <i>Physical Review B</i> , 2021, 104, .	3.2	4
12	Band-selective Holstein polaron in Luttinger liquid material A _{0.3} MoO ₃ (A = K, Rb). <i>Nature Communications</i> , 2021, 12, 6183.	12.8	13
13	In Situ Determination of Polaron-Mediated Ultrafast Electron Trapping in Rutile TiO ₂ Nanorod Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10815-10822.	4.6	14
14	Influence of defects on antidoping behavior in SmNi_3O_7 . <i>Physical Review B</i> , 2021, 104, .	3.2	6
15	Charge density wave breakdown in a heterostructure with electron-phonon coupling. <i>Physical Review B</i> , 2021, 104, .	3.2	9
16	The effective mass problem for the Landau-Pekar equations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 0, , .	2.1	2
17	Self-trapping in bismuth-based semiconductors: Opportunities and challenges from optoelectronic devices to quantum technologies. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	18
18	Subspace Occupancy-Constraining Potentials for Modeling Polaron Formation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26354-26362.	3.1	4

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20	Shining a Hot Light on Emerging Photoabsorber Materials: The Power of Rapid Radiative Heating in Developing Oxide Thin-Film Photoelectrodes. <i>ACS Energy Letters</i> , 2022, 7, 514-522.	17.4	20
21	TiO ₂ Polarons in the Time Domain: Implications for Photocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 559-566.	4.6	12
22	Direct visualization of polaron formation in the thermoelectric SnSe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	23
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24	Comparative <i>ab initio</i> calculations of SrTiO ₃ , BaTiO ₃ , PbTiO ₃ , and SrZrO ₃ (001) and (111) surfaces as well as oxygen vacancies. <i>Low Temperature Physics</i> , 2022, 48, 80-88.	0.6	4
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78	Probing interface structure and cation segregation in (In, Nb) co-doped TiO_2 thin films. <i>Materials Characterization</i> , 2022, 191, 112164.	4.4	2
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169	Manipulating single excess electrons in monolayer transition metal dihalide. Nature Communications, 2023, 14, .	12.8	4
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