Elad Harel

List of Publications by Year
in descending order

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43	4,320	361296	276775
papers	citations	20 h-index	41 g-index

43	43	43	5240
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Local detection of electromagnetic energy transport below the diffraction limit in metal nanoparticle plasmon waveguides. Nature Materials, 2003, 2, 229-232.	13.3	2,207
2	Long-lived quantum coherence in photosynthetic complexes at physiological temperature. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12766-12770.	3.3	886
3	Quantum coherence spectroscopy reveals complex dynamics in bacterial light-harvesting complex 2 (LH2). Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 706-711.	3.3	173
4	Cation Engineering in Two-Dimensional Ruddlesdenâ€“Popper Lead Iodide Perovskites with Mixed Large A-Site Cations in the Cages. Journal of the American Chemical Society, 2020, 142, 4008-4021.	6.6	101
5	Real-time mapping of electronic structure with single-shot two-dimensional electronic spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16444-16447.	3.3	92
6	Negative Pressure Engineering with Large Cage Cations in 2D Halide Perovskites Causes Lattice Softening. Journal of the American Chemical Society, 2020, 142, 11486-11496.	6.6	84
7	Single-Shot Gradient-Assisted Photon Echo Electronic Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 3787-3796.	1.1	65
8	Multiphase imaging of gas flow in a nanoporous material using remote-detection NMR. Nature Materials, 2006, 5, 321-327.	13.3	54
9	Dissecting Hidden Couplings Using Fifth-Order Three-Dimensional Electronic Spectroscopy. Journal of Physical Chemistry Letters, 2010, 1, 2876-2880.	2.1	52
10	Zooming In on Microscopic Flow by Remotely Detected MRI. Science, 2010, 330, 1078-1081.	6.0	50
11	Measurement of electronic splitting in PbS quantum dots by two-dimensional nonlinear spectroscopy. Physical Review B, 2012, 86, .	1.1	44
12	Stable and high-power few cycle supercontinuum for 2D ultrabroadband electronic spectroscopy. Optics Letters, 2015, 40, 1014.	1.7	41
13	Novel Detection Schemes of Nuclear Magnetic Resonance and Magnetic Resonance Imaging: Applications from Analytical Chemistry to Molecular Sensors. Annual Review of Analytical Chemistry, 2008, 1, 133-163.	2.8	38
14	Quantum coherence selective 2D Ramanâ€“2D electronic spectroscopy. Nature Communications, 2017, 8, 14732.	5.8	37
15	Single-shot ultrabroadband two-dimensional electronic spectroscopy of the light-harvesting complex LH2. Optics Letters, 2011, 36, 1665.	1.7	33
16	Ultrafast Imaging of Carrier Cooling in Metal Halide Perovskite Thin Films. Nano Letters, 2018, 18, 1044-1048.	4.5	33
17	Transient Sub-Band-Gap States at Grain Boundaries of CH₃NH₃PbI₃ Perovskite Act as Fast Temperature Relaxation Centers. ACS Energy Letters, 2019, 4, 1741-1747.	8.8	33
18	Quantifying the Diffusion of a Fluid through Membranes by Double Phase Encoded Remote Detection Magnetic Resonance Imaging. Journal of Physical Chemistry B, 2007, 111, 13929-13936.	1.2	24

#	Article	IF	Citations
19	Magnetic resonance detection: spectroscopy and imaging of lab-on-a-chip. Lab on A Chip, 2009, 9, 17-23.	3.1	24
20	Transient Sub-bandgap States in Halide Perovskite Thin Films. Nano Letters, 2018, 18, 827-831.	4.5	24
21	Fabrication of Polystyrene Latex Nanostructures by Nanomanipulation and Thermal Processing. Nano Letters, 2005, 5, 2624-2629.	4.5	22
22	Two-Dimensional Spectroscopy Can Distinguish between Decoherence and Dephasing of Zero-Quantum Coherences. Journal of Physical Chemistry A, 2012, 116, 282-289.	1.1	20
23	Mapping the Vibronic Structure of a Molecule by Few-Cycle Continuum Two-Dimensional Spectroscopy in a Single Pulse. Journal of Physical Chemistry Letters, 2014, 5, 2808-2814.	2.1	20
24	Coherences of Bacteriochlorophyll a Uncovered Using 3D-Electronic Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 6077-6081.	2.1	19
25	Mapping multidimensional electronic structure and ultrafast dynamics with single-element detection and compressive sensing. Nature Communications, 2016, 7, 10434.	5.8	18
26	Four-dimensional coherent electronic Raman spectroscopy. Journal of Chemical Physics, 2017, 146, 154201.	1.2	16
27	Electronic coherence lifetimes of the Fennaâ€“Matthewsâ€“Olson complex and light harvesting complex II. Chemical Science, 2019, 10, 10503-10509.	3.7	16
28	Long range excitonic transport in a biomimetic system inspired by the bacterial light-harvesting apparatus. Journal of Chemical Physics, 2012, 136, 174104.	1.2	14
29	Fully refocused multi-shot spatiotemporally encoded MRI: robust imaging in the presence of metallic implants. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2012, 25, 433-442.	1.1	12
30	Isolated Ground-State Vibrational Coherence Measured by Fifth-Order Single-Shot Two-Dimensional Electronic Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 3636-3640.	2.1	11
31	Ultrafast Four-Dimensional Coherent Spectroscopy by Projection Reconstruction. Journal of Physical Chemistry Letters, 2018, 9, 1034-1040.	2.1	10
32	Enhanced-Resolution Single-Shot 2DFT Spectroscopy by Spatial Spectral Interferometry. Journal of Physical Chemistry Letters, 2015, 6, 945-950.	2.1	9
33	Lab-on-a-chip detection by magnetic resonance methods. Progress in Nuclear Magnetic Resonance Spectroscopy, 2010, 57, 293-305.	3.9	7
34	Dispersion measurements using time-of-flight remote detection MRI. Magnetic Resonance Imaging, 2007, 25, 449-452.	1.0	5
35	Excitonâ€“Phonon Spectroscopy of Quantum Dots Below the Single-Particle Homogeneous Line Width. Journal of Physical Chemistry Letters, 2018, 9, 1503-1508.	2.1	5
36	Non-Uniform Excited State Electronic-Vibrational Coupling of Pigmentâ€“Protein Complexes. Journal of Physical Chemistry Letters, 2020, 11, 10388-10395.	2.1	5

#	Article	IF	Citations
37	Global Analysis for Time and Spectrally Resolved Multidimensional Microscopy: Application to CH₃NH₃PbI₃ Perovskite Thin Films. Journal of Physical Chemistry A, 2020, 124, 4837-4847.	1.1	5
38	Zooming in on vibronic structure by lowest-value projection reconstructed 4D coherent spectroscopy. Journal of Chemical Physics, 2018, 148, 194201.	1.2	4
39	Coherent and dissipative quantum process tensor reconstructions in two-dimensional electronic spectroscopy. Journal of Chemical Physics, 2019, 150, 164127.	1.2	4
40	Four-Dimensional Coherent Spectroscopy of Complex Molecular Systems in Solution. Journal of Physical Chemistry C, 2019, 123, 6303-6315.	1.5	2
41	Low energy excited state vibrations revealed in conjugated copolymer PCDTBT. Journal of Chemical Physics, 2020, 152, 044201.	1.2	1
42	Four-Dimensional Coherent Spectroscopy. Springer Series in Optical Sciences, 2019, , 105-124.	0.5	0
43	Non-Resonant 2 Color 2-Dimensional Electronic Spectroscopy Reveals Ground State Coherences of Light Harvesting Complex II. , 2020, , .		0