

Yaron Paz

List of Publications by Year in descending order

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64
papers

2,664
citations

279487

23
h-index

182168

51
g-index

66
all docs

66
docs citations

66
times ranked

4296
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. <i>Advanced Materials</i> , 2015, 27, 5102-5112.	11.1	372
2	Application of TiO ₂ photocatalysis for air treatment: Patents™ overview. <i>Applied Catalysis B: Environmental</i> , 2010, 99, 448-460.	10.8	335
3	Using Dyes for Evaluating Photocatalytic Properties: A Critical Review. <i>Molecules</i> , 2015, 20, 88-110.	1.7	250
4	Composite Polymer Nanofibers with Carbon Nanotubes and Titanium Dioxide Particles. <i>Langmuir</i> , 2005, 21, 5600-5604.	1.6	197
5	Away from TiO ₂ : A critical minireview on the developing of new photocatalysts for degradation of contaminants in water. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 72-80.	1.9	101
6	Remote Photocatalytic Activity as Probed by Measuring the Degradation of Self-Assembled Monolayers Anchored near Microdomains of Titanium Dioxide. <i>Journal of Physical Chemistry B</i> , 2001, 105, 3045-3051.	1.2	98
7	Preferential photodegradation of contaminants by molecular imprinting on titanium dioxide. <i>Applied Catalysis B: Environmental</i> , 2010, 95, 169-178.	10.8	93
8	Long-Range Effects of Noble Metals on the Photocatalytic Properties of Titanium Dioxide. <i>Journal of Physical Chemistry B</i> , 2003, 107, 2319-2326.	1.2	92
9	Selective Photocatalysis by Means of Molecular Recognition. <i>Journal of the American Chemical Society</i> , 2001, 123, 10776-10777.	6.6	83
10	Preferential photodegradation – why and how?. <i>Comptes Rendus Chimie</i> , 2006, 9, 774-787.	0.2	78
11	Microcalorimetric Study of the Effects of a Chaotropic Salt, KSCN, on the Lower Critical Solution Temperature (LCST) of Aqueous Poly(N-isopropylacrylamide) (PNIPA) Solutions. <i>Macromolecules</i> , 2010, 43, 480-487.	2.2	72
12	On the Similarity and Dissimilarity between Photocatalytic Water Splitting and Photocatalytic Degradation of Pollutants. <i>ChemPhysChem</i> , 2013, 14, 2059-2070.	1.0	70
13	Self-assembled monolayers and titanium dioxide: From surface patterning to potential applications. <i>Beilstein Journal of Nanotechnology</i> , 2011, 2, 845-861.	1.5	65
14	Attenuated total reflectance/fourier transform infrared studies on the phase-separation process of aqueous solutions of poly(n-isopropylacrylamide). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 1665-1677.	2.4	55
15	Structural, photophysical and photocatalytic properties of new Bi ₂ SbVO ₇ under visible light irradiation. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6289.	1.3	55
16	Controlled mass transport as a means for obtaining selective photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 160, 77-85.	2.0	51
17	“Dark”-Photocatalysis: The Degradation of Organic Molecules Anchored to Dark Microdomains of Titanium Dioxide. <i>ChemPhysChem</i> , 2003, 4, 617-620.	1.0	38
18	Synergistic photocatalytic effect in Fe,Nb-doped BiOCl. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 290, 11-21.	2.0	38

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19	Enhanced photodegradation of diisopropyl methyl phosphonate by the "Adsorb & Shuttle" approach. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 174, 253-260.	2.0	31
20	Composite Titanium Dioxide Photocatalysts and the "Adsorb & Shuttle" Approach: A Review. <i>Solid State Phenomena</i> , 0, 162, 135-162.	0.3	31
21	Transient photoinduced phenomena in graphitic carbon nitride as measured at nanoseconds resolution by step-scan FTIR. <i>Catalysis Today</i> , 2020, 340, 97-105.	2.2	31
22	The interaction between poly(N-isopropylacrylamide) and salts in aqueous media: The "salting-out" phenomenon as studied by attenuated total reflection/fourier transform infrared spectroscopy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 33-46.	2.4	29
23	Beyond charge separation: The effect of coupling between titanium dioxide and CNTs on the adsorption and photocatalytic reduction of Cr(VI). <i>Chemical Engineering Journal</i> , 2013, 231, 49-58.	6.6	27
24	ATR-FTIR studies on the effect of strong salting-out salts on the phase separation scenario in aqueous solutions of poly(N-isopropylacrylamide) [PNIPA]. <i>Polymers for Advanced Technologies</i> , 2002, 13, 982-991.	1.6	26
25	The effect of Pt cocatalyst on the performance and transient IR spectrum of photocatalytic g-C ₃ N ₄ nanospheres. <i>Applied Surface Science</i> , 2021, 542, 148432.	3.1	25
26	Ultra-thin SiO ₂ layers on TiO ₂ : improved photocatalysis by enhancing products' desorption. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3392.	1.3	23
27	Photocatalytic Treatment of Air. <i>Advances in Chemical Engineering</i> , 2009, 36, 289-336.	0.5	21
28	Highly efficient method for oxidation of dissolved hydrogen sulfide in water, utilizing a combination of UVC light and dissolved oxygen. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 372, 63-70.	2.0	20
29	Isomeric sugar effects on thermal phase transition of aqueous PNIPA solutions, probed by ATR-FTIR spectroscopy; insights to protein protection by sugars. <i>Colloid and Polymer Science</i> , 2011, 289, 281-290.	1.0	18
30	Recent Advancements in the Understanding of the Surface Chemistry in TiO ₂ Photocatalysis. <i>Surfaces</i> , 2020, 3, 72-92.	1.0	18
31	Enhancement of Photoinduced Visible Light Degradation of Salicylic Acid by Covalently Attached Synthetic Flavins on BiOCl Semiconductor Particle Surfaces. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16069-16079.	1.5	16
32	Contact angle measurement on rough surfaces: the missing link. <i>Surface Innovations</i> , 2017, 5, 190-193.	1.4	16
33	BiYWO ₆ : Novel synthetic routes and their effect on visible-light photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 318, 14-24.	2.0	15
34	Transient IR spectroscopy as a tool for studying photocatalytic materials. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 503004.	0.7	15
35	Photocatalysis by Composite Particles Containing Inert Domains. <i>Israel Journal of Chemistry</i> , 2006, 46, 33-43.	1.0	14
36	Flavin Derivatives with Tailored Redox Properties: Synthesis, Characterization, and Electrochemical Behavior. <i>Chemistry - A European Journal</i> , 2016, 22, 9209-9217.	1.7	14

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37	Coating and Passivation of InPâ€“InGaAs Devices by Organic Self-Assembled Monolayers. Journal of the Electrochemical Society, 2006, 153, G91.	1.3	10
38	Photopatternable self-assembled monolayers as micron scale templates for polymer based field effect transistors. Applied Physics Letters, 2009, 94, .	1.5	10
39	The Structural, Photocatalytic Property Characterization and Enhanced Photocatalytic Activities of Novel Photocatalysts Bi ₂ GaSbO ₇ and Bi ₂ InSbO ₇ during Visible Light Irradiation. Materials, 2016, 9, 801.	1.3	10
40	Photocatalytic N-doped TiO ₂ for self-cleaning of limestones. European Physical Journal Plus, 2019, 134, 1.	1.2	10
41	Transient FTIR Measurements at Nanoseconds Resolution: Correlating between Faceting and Photocatalytic Activity in BiOCl. Journal of the Electrochemical Society, 2019, 166, H3257-H3264.	1.3	9
42	Effect of Metallic Microdomains on the Chemisorption of Octadecyltrichlorosilane onto Titanium Dioxide. Langmuir, 2003, 19, 2540-2544.	1.6	8
43	Low-temperature direct bonding of silicon nitride to glass. RSC Advances, 2018, 8, 2161-2172.	1.7	8
44	Interdigitated Electrophotocatalytic Cell for Water Purification. International Journal of Photoenergy, 2011, 2011, 1-7.	1.4	7
45	Orthogonal fractal growth of CsI domains forming a ladder-like structure. Thin Solid Films, 2018, 661, 108-115.	0.8	7
46	Nanoseconds-resolved transient FTIR spectroscopy as a tool for studying the photocatalytic behavior of various types of bismuth vanadate. Applied Catalysis B: Environmental, 2020, 278, 119351.	10.8	7
47	Polyimide coating on non-planar microelectronic devices: characterization of vacuum drying effects by a new â€“flipâ€“pasteâ€“ back-etching method. Surface and Coatings Technology, 1999, 122, 214-218.	2.2	6
48	Kinetic Resolution of Racemic Mixtures via Enantioselective Photocatalysis. ACS Applied Materials & Interfaces, 2021, 13, 39781-39790.	4.0	6
49	Heat-treated polyacrylonitrile nanofibers: A new material for efficient photo-assisted reduction of Cr(VI). Journal of Photochemistry and Photobiology A: Chemistry, 2013, 257, 26-33.	2.0	5
50	Enhanced photocatalytic activity of a self-stabilized synthetic flavin anchored on a TiO ₂ surface. Physical Chemistry Chemical Physics, 2016, 18, 18575-18583.	1.3	5
51	Towards on-demand photocatalysis: Controlling the operation of a photocatalytic reactor based on real-time, automatic monitoring of toxicity towards the working bacteria of a proceeding bioreactor. Chemical Engineering Journal, 2022, 433, 133621.	6.6	5
52	A combined photocatalyticâ€“biological wastewater treatment approach: a steadyâ€“state model. Journal of Chemical Technology and Biotechnology, 2017, 92, 2606-2615.	1.6	3
53	Enhancement of carrier collection efficiency in photodiodes by introducing a salicided polysilicon contact. Journal of Applied Physics, 2015, 117, 234504.	1.1	2
54	Computational Models of (001) Faceted Anatase TiO ₂ Nanoparticles. Journal of Chemical Technology and Biotechnology, 2020, 95, 2750.	1.6	2

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55	Post-Excitation Transient IR Phenomena in Fe_2O_3 Films. Journal of Physical Chemistry C, 2021, 125, 28013-28024.	1.5	2
56	Photocatalytic Degradation of Self-Assembled Monolayers Anchored at the Vicinity of Titanium Dioxide Domains. Journal of Advanced Oxidation Technologies, 2002, 5, .	0.5	1
57	Nanoscale structures in photocatalysis: Dense films, molecular imprinting and composites. , 2011, , .		1
58	FRET based technique for the characterization of contour lines. Dyes and Pigments, 2012, 95, 18-22.	2.0	1
59	Attenuated total reflectance/fourier transform infrared studies on the phase separation process of aqueous solutions of poly(α -isopropylacrylamide). Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 1665-1677.	2.4	1
60	The Effect of Modifying TiO_2 with Lanthanides on the Photocatalytic Degradation of Ciprofloxacin, a Hydrophobic Compound.. Journal of Photocatalysis, 2022, 03, .	0.4	1
61	Novel vertical silicon photodiodes based on salicided polysilicon trenched contacts. Journal of Applied Physics, 2015, 118, 214502.	1.1	0
62	On the Difference Between Air-cleaning and Self-cleaning. Journal of Advanced Oxidation Technologies, 2016, 19, .	0.5	0
63	Correction: Enhanced photocatalytic activity of a self-stabilized synthetic flavin anchored on a TiO_2 surface. Physical Chemistry Chemical Physics, 2016, 18, 24134-24134.	1.3	0
64	The use of interface-sensitive test structure comprising of shallow trench isolation as a tool for analyzing the quality of Si/SiO_2 interfaces. Materials Science in Semiconductor Processing, 2016, 44, 64-70.	1.9	0