

Yaron Paz

List of Publications by Year in descending order

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64
papers

2,664
citations

279798

23
h-index

182427

51
g-index

66
all docs

66
docs citations

66
times ranked

4296
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Chemical Engineering Journal</i> , 2022, 433, 133621.	12.7	5
2	The Effect of Modifying TiO ₂ with Lanthanides on the Photocatalytic Degradation of Ciprofloxacin, a Hydrophobic Compound.. <i>Journal of Photocatalysis</i> , 2022, 03, .	0.4	1
3	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.	6.1	25
4	Kinetic Resolution of Racemic Mixtures via Enantioselective Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39781-39790.	8.0	6
5	Post-Excitation Transient IR Phenomena in $\hat{\pm}\text{Fe}_{2}\text{O}_{3}$ Films. <i>Journal of Physical Chemistry C</i> , 2021, 125, 28013-28024.	3.1	2
6	Transient photoinduced phenomena in graphitic carbon nitride as measured at nanoseconds resolution by step-scan FTIR. <i>Catalysis Today</i> , 2020, 340, 97-105.	4.4	31
7	Nanoseconds-resolved transient FTIR spectroscopy as a tool for studying the photocatalytic behavior of various types of bismuth vanadate. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119351.	20.2	7
8	Computational Models of (001) Faceted Anatase TiO ₂ Nanoparticles. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 2750.	3.2	2
9	Recent Advancements in the Understanding of the Surface Chemistry in TiO ₂ Photocatalysis. <i>Surfaces</i> , 2020, 3, 72-92.	2.3	18
10	Photocatalytic N-doped TiO ₂ for self-cleaning of limestones. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	10
11	Transient FTIR Measurements at Nanoseconds Resolution: Correlating between Faceting and Photocatalytic Activity in BiOCl. <i>Journal of the Electrochemical Society</i> , 2019, 166, H3257-H3264.	2.9	9
12	Transient IR spectroscopy as a tool for studying photocatalytic materials. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 503004.	1.8	15
13	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.	3.9	20
14	Low-temperature direct bonding of silicon nitride to glass. <i>RSC Advances</i> , 2018, 8, 2161-2172.	3.6	8
15	Orthogonal fractal growth of CsI domains forming a ladder-like structure. <i>Thin Solid Films</i> , 2018, 661, 108-115.	1.8	7
16	A combined photocatalytic-biological wastewater treatment approach: a steady-state model. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2606-2615.	3.2	3
17	Contact angle measurement on rough surfaces: the missing link. <i>Surface Innovations</i> , 2017, 5, 190-193.	2.3	16
18	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. <i>Materials</i> , 2016, 9, 801.	2.9	10

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19	Flavin Derivatives with Tailored Redox Properties: Synthesis, Characterization, and Electrochemical Behavior. <i>Chemistry - A European Journal</i> , 2016, 22, 9209-9217.	3.3	14
20	On the Difference Between Air-cleaning and Self-cleaning. <i>Journal of Advanced Oxidation Technologies</i> , 2016, 19, .	0.5	0
21	Correction: Enhanced photocatalytic activity of a self-stabilized synthetic flavin anchored on a TiO ₂ surface. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24134-24134.	2.8	0
22	Enhanced photocatalytic activity of a self-stabilized synthetic flavin anchored on a TiO ₂ surface. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18575-18583.	2.8	5
23	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.	3.9	15
24	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.	3.1	16
25	The use of interface-sensitive test structure comprising of shallow trench isolation as a tool for analyzing the quality of Si/SiO ₂ interfaces. <i>Materials Science in Semiconductor Processing</i> , 2016, 44, 64-70.	4.0	0
26	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.	4.0	101
27	Enhancement of carrier collection efficiency in photodiodes by introducing a salicided polysilicon contact. <i>Journal of Applied Physics</i> , 2015, 117, 234504.	2.5	2
28	Novel vertical silicon photodiodes based on salicided polysilicon trenched contacts. <i>Journal of Applied Physics</i> , 2015, 118, 214502.	2.5	0
29	Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. <i>Advanced Materials</i> , 2015, 27, 5102-5112.	21.0	372
30	Using Dyes for Evaluating Photocatalytic Properties: A Critical Review. <i>Molecules</i> , 2015, 20, 88-110.	3.8	250
31	Synergistic photocatalytic effect in Fe,Nb-doped BiOCl. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 290, 11-21.	3.9	38
32	Heat-treated polyacrylonitrile nanofibers: A new material for efficient photo-assisted reduction of Cr(VI). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 257, 26-33.	3.9	5
33	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.	12.7	27
34	On the Similarity and Dissimilarity between Photocatalytic Water Splitting and Photocatalytic Degradation of Pollutants. <i>ChemPhysChem</i> , 2013, 14, 2059-2070.	2.1	70
35	Ultra-thin SiO ₂ layers on TiO ₂ : improved photocatalysis by enhancing products' desorption. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3392.	2.8	23
36	FRET based technique for the characterization of contour lines. <i>Dyes and Pigments</i> , 2012, 95, 18-22.	3.7	1

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37	Self-assembled monolayers and titanium dioxide: From surface patterning to potential applications. Beilstein Journal of Nanotechnology, 2011, 2, 845-861.	2.8	65
38	Isomeric sugar effects on thermal phase transition of aqueous PNIPA solutions, probed by ATR-FTIR spectroscopy; insights to protein protection by sugars. Colloid and Polymer Science, 2011, 289, 281-290.	2.1	18
39	Nanoscale structures in photocatalysis: Dense films, molecular imprinting and composites. , 2011, , .		1
40	Interdigitated Electrophotocatalytic Cell for Water Purification. International Journal of Photoenergy, 2011, 2011, 1-7.	2.5	7
41	Application of TiO ₂ photocatalysis for air treatment: Patentsâ€™ overview. Applied Catalysis B: Environmental, 2010, 99, 448-460.	20.2	335
42	Preferential photodegradation of contaminants by molecular imprinting on titanium dioxide. Applied Catalysis B: Environmental, 2010, 95, 169-178.	20.2	93
43	Microcalorimetric Study of the Effects of a Chaotropic Salt, KSCN, on the Lower Critical Solution Temperature (LCST) of Aqueous Poly(N-isopropylacrylamide) (PNIPA) Solutions. Macromolecules, 2010, 43, 480-487.	4.8	72
44	Photocatalytic Treatment of Air. Advances in Chemical Engineering, 2009, 36, 289-336.	0.9	21
45	Structural, photophysical and photocatalytic properties of new Bi ₂ SbVO ₇ under visible light irradiation. Physical Chemistry Chemical Physics, 2009, 11, 6289.	2.8	55
46	Photopatternable self-assembled monolayers as micron scale templates for polymer based field effect transistors. Applied Physics Letters, 2009, 94, .	3.3	10
47	Photocatalysis by Composite Particles Containing Inert Domains. Israel Journal of Chemistry, 2006, 46, 33-43.	2.3	14
48	Preferential photodegradation â€œ why and how?. Comptes Rendus Chimie, 2006, 9, 774-787.	0.5	78
49	Coating and Passivation of InPâ€™InGaAs Devices by Organic Self-Assembled Monolayers. Journal of the Electrochemical Society, 2006, 153, G91.	2.9	10
50	Enhanced photodegradation of diisopropyl methyl phosphonate by the â€œAdsorb & Shuttleâ€ approach. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 174, 253-260.	3.9	31
51	Composite Polymer Nanofibers with Carbon Nanotubes and Titanium Dioxide Particles. Langmuir, 2005, 21, 5600-5604.	3.5	197
52	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. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 33-46.	2.1	29
53	â€œDarkâ€ Photocatalysis: The Degradation of Organic Molecules Anchored to Dark Microdomains of Titanium Dioxide. ChemPhysChem, 2003, 4, 617-620.	2.1	38
54	Controlled mass transport as a means for obtaining selective photocatalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 160, 77-85.	3.9	51

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55	Long-Range Effects of Noble Metals on the Photocatalytic Properties of Titanium Dioxide. Journal of Physical Chemistry B, 2003, 107, 2319-2326.	2.6	92
56	Effect of Metallic Microdomains on the Chemisorption of Octadecyltrichlorosilane onto Titanium Dioxide. Langmuir, 2003, 19, 2540-2544.	3.5	8
57	Photocatalytic Degradation of Self-Assembled Monolayers Anchored at the Vicinity of Titanium Dioxide Domains. Journal of Advanced Oxidation Technologies, 2002, 5, .	0.5	1
58	ATR-FTIR studies on the effect of strong salting-out salts on the phase separation scenario in aqueous solutions of poly(N-isopropylacrylamide) [PNIPA]. Polymers for Advanced Technologies, 2002, 13, 982-991.	3.2	26
59	Selective Photocatalysis by Means of Molecular Recognition. Journal of the American Chemical Society, 2001, 123, 10776-10777.	13.7	83
60	Remote Photocatalytic Activity as Probed by Measuring the Degradation of Self-Assembled Monolayers Anchored near Microdomains of Titanium Dioxide. Journal of Physical Chemistry B, 2001, 105, 3045-3051.	2.6	98
61	Attenuated total reflectance/fourier transform infrared studies on the phase-separation process of aqueous solutions of poly(n-isopropylacrylamide). Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 1665-1677.	2.1	55
62	Attenuated total reflectance/fourier transform infrared studies on the phase-separation process of aqueous solutions of poly(n-isopropylacrylamide). Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 1665-1677.	2.1	1
63	Polyimide coating on non-planar microelectronic devices: characterization of vacuum drying effects by a new "flip" paste™ back-etching method. Surface and Coatings Technology, 1999, 122, 214-218.	4.8	6
64	Composite Titanium Dioxide Photocatalysts and the "Adsorb & Shuttle" Approach: A Review. Solid State Phenomena, 0, 162, 135-162.	0.3	31