

# Kenneth M Beck

## List of Publications by Year in descending order

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68  
papers

1,317  
citations

430442

18  
h-index

377514

34  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1588  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coprecipitation of Uranium(VI) with Calcite: XAFS, micro-XAS, and luminescence characterization. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3491-3503.	1.6	180
2	Photoemission Electron Microscopy of TiO <sub>2</sub> Anatase Films Embedded with Rutile Nanocrystals. <i>Advanced Functional Materials</i> , 2007, 17, 2133-2138.	7.8	167
3	EXAFS study of rare-earth element coordination in calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 2875-2885.	1.6	73
4	The vibrational relaxation of highly excited SF <sub>6</sub> by Ar. <i>Journal of Chemical Physics</i> , 1987, 87, 5681-5686.	1.2	49
5	Laser Control of Desorption through Selective Surface Excitation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19563-19578.	1.2	48
6	Preparation of Pt/TiO <sub>2</sub> nanocomposite thin films by pulsed laser deposition and their photoelectrochemical behaviors. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 145, 11-16.	2.0	47
7	Vibrational overtone spectroscopy of OH—Ar complexes. <i>Chemical Physics Letters</i> , 1989, 162, 203-210.	1.2	44
8	Time-resolved optoacoustic measurements of vibrational relaxation rates. <i>Chemical Physics Letters</i> , 1985, 121, 529-534.	1.2	41
9	Selective laser desorption of ionic surfaces: Resonant surface excitation of KBr. <i>Journal of Chemical Physics</i> , 2001, 115, 9463-9472.	1.2	35
10	Plasmonic field enhancement of individual nanoparticles by correlated scanning and photoemission electron microscopy. <i>Journal of Chemical Physics</i> , 2011, 134, 034507.	1.2	31
11	Determination of surface exciton energies by velocity resolved atomic desorption. <i>Surface Science</i> , 2004, 564, 62-70.	0.8	30
12	Theory and application of time-resolved optoacoustics in gases. <i>Journal of Chemical Physics</i> , 1988, 89, 5560-5567.	1.2	29
13	A mechanism of photo-induced desorption of oxygen atoms from MgO nano-crystals. <i>Surface Science</i> , 2005, 593, 210-220.	0.8	28
14	Evidence for a surface exciton in KBr via laser desorption. <i>Physical Review B</i> , 2001, 63, .	1.1	26
15	Characterization of nanocomposite materials prepared via laser ablation of Pt/TiO <sub>2</sub> bi-combinant targets. <i>Chemical Physics Letters</i> , 1999, 301, 336-342.	1.2	24
16	Site-specific laser modification of MgO nanoclusters: Towards atomic-scale surface structuring. <i>Physical Review B</i> , 2006, 74, .	1.1	24
17	Energy and site selectivity in O-atom photodesorption from nanostructured MgO. <i>Surface Science</i> , 2008, 602, 1968-1973.	0.8	22
18	Broad distribution of crystal-field environments for Nd <sup>3+</sup> in calcite. <i>Physics and Chemistry of Minerals</i> , 2003, 30, 440-448.	0.3	21

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19	Excited Carrier Dynamics of $\text{Cr}_2\text{O}_3/\text{Fe}_2\text{O}_3$ Core-Shell Nanostructures. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16937-16940.	1.2	19
20	Laser and electrical current induced phase transformation of $\text{In}_2\text{Se}_3$ semiconductor thin film on Si(111). <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 93-98.	1.1	18
21	Preparation of Pt/TiO <sub>2</sub> nanocomposite films by 2-beam pulsed laser deposition. <i>Applied Surface Science</i> , 2002, 197-198, 619-623.	3.1	17
22	Surface-Induced Dissociation of Ions Produced by Matrix-Assisted Laser Desorption/Ionization in a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. <i>Analytical Chemistry</i> , 2004, 76, 351-356.	3.2	17
23	Plasmon-induced optical field enhancement studied by correlated scanning and photoemission electron microscopy. <i>Journal of Chemical Physics</i> , 2013, 138, 154701.	1.2	17
24	Control of laser desorption using tunable single pulses and pulse pairs. <i>Journal of Chemical Physics</i> , 2002, 116, 8144-8151.	1.2	16
25	Excitation, Ionization, and Desorption: How Sub-Band Gap Photons Modify the Structure of Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1274-1279.	1.5	16
26	Study of Martensitic Phase Transformation in a NiTiCu Thin-Film Shape-Memory Alloy Using Photoelectron Emission Microscopy. <i>Advanced Functional Materials</i> , 2007, 17, 161-167.	7.8	15
27	Surface electronic spectra detected by atomic desorption. <i>Surface Science</i> , 2003, 544, L683-L688.	0.8	14
28	Surface electronic properties and site-specific laser desorption processes of highly structured nanoporous MgO thin films. <i>Surface Science</i> , 2005, 593, 242-247.	0.8	14
29	Laser control of product electronic state: Desorption from alkali halides. <i>Journal of Chemical Physics</i> , 2004, 120, 2456-2463.	1.2	13
30	Study of copper diffusion through a ruthenium thin film by photoemission electron microscopy. <i>Applied Physics Letters</i> , 2007, 90, 111906.	1.5	13
31	Synthesis and photoexcited charge carrier dynamics of $\text{Fe}^{2+}$ -FeOOH nanorods. <i>Applied Physics Letters</i> , 2007, 90, 103504.	1.5	13
32	Comparison of the optoacoustic and mercury tracer methods for the study of energy-transfer processes in gas mixtures. <i>The Journal of Physical Chemistry</i> , 1988, 92, 3839-3842.	2.9	12
33	Comparison of Pt/TiO <sub>2</sub> nanocomposite films prepared by sputtering and pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, S771-S774.	1.1	12
34	Photostimulated desorption of CO from geologic calcite following 193-nm irradiation. <i>Physical Review B</i> , 1997, 55, 13253-13262.	1.1	11
35	Probing Electron Transfer Dynamics at MgO Surfaces by Mg-Atom Desorption. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18093-18096.	1.2	11
36	Vacancies ordered in screw form (VOSF) and layered indium selenide thin film deposition by laser back ablation. <i>Applied Surface Science</i> , 2009, 255, 9707-9711.	3.1	11

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37	In situ photoelectron emission microscopy of a thermally induced martensitic transformation in a CuZnAl shape memory alloy. Applied Physics Letters, 2006, 88, 091910.	1.5	10
38	Thermal state distributions deduced from (2 + 1) resonance enhanced multiphoton ionization of CO. Chemical Physics Letters, 1996, 256, 297-304.	1.2	9
39	Femtosecond time-resolved laser-induced desorption of positive ions from MgO. Applied Physics A: Materials Science and Processing, 1999, 69, S389-S393.	1.1	9
40	Photoemission electron microscopy of a plasmonic silver nanoparticle trimer. Applied Physics A: Materials Science and Processing, 2013, 112, 35-39.	1.1	9
41	Solid-state halogen atom source for chemical dynamics and etching. Applied Physics Letters, 2002, 81, 1140-1142.	1.5	8
42	An in situ study of the martensitic transformation in shape memory alloys using photoemission electron microscopy. Journal of Nuclear Materials, 2007, 361, 306-312.	1.3	8
43	Materials applications of photoelectron emission microscopy. Jom, 2010, 62, 90-93.	0.9	8
44	Atomic and molecular photostimulated desorption from complex ionic crystals. Journal of Electronic Materials, 1997, 26, 1335-1341.	1.0	7
45	Photon stimulated desorption from KI: Laser control of I-atom velocity distributions. Surface Science, 2003, 528, 219-223.	0.8	7
46	Time-resolved femtosecond laser-induced desorption from magnesium oxide and lithium fluoride single crystals. Surface Science, 2000, 451, 166-173.	0.8	6
47	Femtosecond time-resolved photo-stimulated desorption from ionic crystals. Applied Surface Science, 2002, 186, 339-344.	3.1	6
48	Laser-induced oxygen vacancy formation and diffusion on TiO <sub>2</sub> (110) surfaces probed by photoemission electron microscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3598-3602.	0.8	6
49	Near-field focused photoemission from polystyrene microspheres studied with photoemission electron microscopy. Journal of Chemical Physics, 2012, 137, 014202.	1.2	6
50	Investigation of distortion and damage of molybdenum-silicon multilayer reflective coatings with high-intensity ultraviolet radiation. Applied Optics, 1993, 32, 6999.	2.1	5
51	Ultrafast and nanosecond laser-induced desorption of positive ions from lithium fluoride single crystals. Applied Physics A: Materials Science and Processing, 1999, 69, S153-S157.	1.1	5
52	Exciton-Driven Highly Hyperthermal O-Atom Desorption from Nanostructured CaO. Journal of Physical Chemistry C, 2011, 115, 692-699.	1.5	5
53	Reply to a Comment on: The vibrational relaxation of highly excited molecules. Journal of Chemical Physics, 1988, 89, 3399-3400.	1.2	4
54	Electronic energy transfer on CaO surfaces. Journal of Chemical Physics, 2008, 129, 124704.	1.2	4

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55	Use of piezoelectric ceramics in detection and measurement of pulsed laser radiation. Analytical Chemistry, 1989, 61, 796-797.	3.2	3
56	Transient center photodecomposition in potassium bromide. Applied Surface Science, 2002, 197-198, 581-586.	3.1	3
57	Vibrational relaxation of highly excited SiF <sub>4</sub> and C <sub>6</sub> F <sub>5</sub> H by Ar. Journal of Chemical Physics, 1990, 92, 6011-6016.	1.2	2
58	UV spectroscopy of perylene-CO van der Waals complexes. Chemical Physics Letters, 1992, 199, 445-454.	1.2	2
59	Two-color laser desorption of nanostructured MgO thin films. Applied Surface Science, 2009, 255, 9562-9565.	3.1	2
60	Photodesorption of excited iodine atoms from KI (100). Journal of Chemical Physics, 2009, 131, 144509.	1.2	2
61	A Test for Bottlenecks in the Vibrational Relaxation of CH <sub>3</sub> Cl and CH <sub>3</sub> Br by Ar. Laser Chemistry, 1988, 9, 47-62.	0.5	1
62	Quantum-state resolved products via vacuum ultraviolet photostimulated desorption from geologic calcite. Applied Surface Science, 1998, 127-129, 21-25.	3.1	1
63	Effect of surface charge on laser-induced neutral atom desorption. Applied Physics A: Materials Science and Processing, 2010, 101, 61-64.	1.1	1
64	Time-resolved femtosecond laser desorption from wide-bandgap single crystals. , 2002, , .		0
65	Time-resolved femtosecond laser desorption from alkali halide crystals. , 2004, , .		0
66	Real Time Study of Cu Diffusion through a Ru Thin Film by Photoemission Electron Microscopy (PEEM). Materials Research Society Symposia Proceedings, 2006, 914, 1.	0.1	0
67	Properties of optical parametric oscillation for dental application of soft-and-hard-tissues removal around 2.9 &#x00b5;m IR-band. , 2009, , .		0
68	Surface-Specific Laser Matter Interactions and Dynamics. , 2010, , .		0