# Marco Lazzarino

List of Publications by Year
in descending order

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| 130 | 2,322 | 236612 | 253896 |
|---|---|---|---|
| papers | citations | 25 h-index | 43 g-index |

| 131 | 131 | 131 | 3724 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Role of Cytoskeleton Revealed by Quartz Crystal Microbalance and Digital Holographic Microscopy. International Journal of Molecular Sciences, 2022, 23, 4108. | 1.8 | 3 |
| 2 | Microfabrication of sealable microcell array with ultrathin metal-graphene membrane. Micro and Nano Engineering, 2022, 15, 100120. | 1.4 | 0 |
| 3 | AFM macro-probes to investigate whole 3D cardiac spheroids. Micro and Nano Engineering, 2022, 15, 100134. | 1.4 | 2 |
| 4 | Heart failure impairs the mechanotransduction properties of human cardiac pericytes. Journal of Molecular and Cellular Cardiology, 2021, 151, 15-30. | 0.9 | 17 |
| 5 | Soft x-ray spectroscopies in liquids and at solidâ€“liquid interface at BACH beamline at Elettra. Review of Scientific Instruments, 2021, 92, 015115. | 0.6 | 3 |
| 6 | Changes in Biomechanical Properties of A375 Cells Due to the Silencing of TMSB4X Expression Are Not Directly Correlated with Alterations in Their Stemness Features. Cells, 2021, 10, 769. | 1.8 | 8 |
| 7 | Scanning Probe Microscopies: Imaging and Biomechanics in Reproductive Medicine Research. International Journal of Molecular Sciences, 2021, 22, 3823. | 1.8 | 3 |
| 8 | Perspectives of Microscopy Methods for Morphology Characterisation of Extracellular Vesicles from Human Biofluids. Biomedicines, 2021, 9, 603. | 1.4 | 43 |
| 9 | Experimental Study of Fewâ€Layer Graphene: Optical Anisotropy and Pseudoâ€Brewster Angle Shift in Vacuum Ultraviolet Spectral Range. Advanced Photonics Research, 2021, 2, 2000207. | 1.7 | 2 |
| 10 | Microfabricated cantilevers for parallelized cell-cell adhesion measurements. European Biophysics Journal, 2021, , 1. | 1.2 | 3 |
| 11 | Ultraâ€structural analysis of human spermatozoa by aperture scanning nearâ€field optical microscopy. Journal of Biophotonics, 2020, 13, e2418. | 1.1 | 3 |
| 12 | Nanofabricated free-standing wire scanners for beam diagnostics with submicrometer resolution. Physical Review Accelerators and Beams, 2020, 23, . | 0.6 | 2 |
| 13 | A DNA origami plasmonic sensor with environment-independent read-out. Nano Research, 2019, 12, 2900-2907. | 5.8 | 2 |
| 14 | Study of the mechanical properties of fresh and cryopreserved individual human oocytes. European Biophysics Journal, 2019, 48, 585-592. | 1.2 | 8 |
| 15 | Planar AFM macro-probes to study the biomechanical properties of large cells and 3D cell spheroids. Acta Biomaterialia, 2019, 94, 505-513. | 4.1 | 30 |
| 16 | Chemical composition and interaction strength of two-dimensional boronâ€‘nitrogenâ€‘carbon heterostructures driven by polycrystalline metallic surfaces. Applied Surface Science, 2019, 479, 903-913. | 3.1 | 4 |
| 17 | P752Pericyte/mural cells of ischemic human hearts show impairment of mechanotransduction, attenuating YAP signaling. European Heart Journal, 2019, 40, . | 1.0 | 0 |
| 18 | Knock Down of Plakophillin 2 Dysregulates Adhesion Pathway through Upregulation of miR200b and Alters the Mechanical Properties in Cardiac Cells. Cells, 2019, 8, 1639. | 1.8 | 18 |

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|---|---|---|---|
| 19 | Frequency Modulated Raman Spectroscopy. ACS Photonics, 2018, 5, 312-317. | 3.2 | 4 |
| 20 | Cortexâ€Like Networks: A Fully 3D Interconnected Grapheneâ€“Carbon Nanotube Web Allows the Study of Glioma Infiltration in Bioengineered 3D Cortexâ€Like Networks (Adv. Mater. 52/2018). Advanced Materials, 2018, 30, 1870397. | 11.1 | 2 |
| 21 | A Fully 3D Interconnected Grapheneâ€“Carbon Nanotube Web Allows the Study of Glioma Infiltration in Bioengineered 3D Cortexâ€Like Networks. Advanced Materials, 2018, 30, e1806132. | 11.1 | 28 |
| 22 | Tuning Gold Nanoparticles Plasmonic Properties by DNA Nanotechnology. Methods in Molecular Biology, 2018, 1811, 279-297. | 0.4 | 2 |
| 23 | Microfabricated wire scanner for photon beam characterization. Journal of Instrumentation, 2018, 13, C03037-C03037. | 0.5 | 1 |
| 24 | A nanofabricated wirescanner with free standing wires: Design, fabrication and experimental results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 891, 32-36. | 0.7 | 2 |
| 25 | Graphene nanobubbles on TiO<sub>2</sub>for in-operando electron spectroscopy of liquid-phase chemistry. Nanoscale, 2017, 9, 4456-4466. | 2.8 | 32 |
| 26 | High aspect ratio silicon nanowires control fibroblast adhesion and cytoskeleton organization. Nanotechnology, 2017, 28, 155102. | 1.3 | 9 |
| 27 | Combined use of AFM and soft X-ray microscopy to reveal fibresâ€™ internalization in mesothelial cells. Analyst, The, 2017, 142, 1982-1992. | 1.7 | 6 |
| 28 | Graphene Nanoreactors: Photoreduction of Prussian Blue in Aqueous Solution. Journal of Physical Chemistry C, 2017, 121, 22225-22233. | 1.5 | 12 |
| 29 | Generation of coherent magnons in NiO stimulated by EUV pulses from a seeded free-electron laser. Physical Review Materials, 2017, 1, . | 0.9 | 6 |
| 30 | Acetylated tubulin is essential for touch sensation in mice. ELife, 2016, 5, . | 2.8 | 78 |
| 31 | Toward an integrated device for spatiotemporal superposition of free-electron lasers and laser pulses. Optics Letters, 2016, 41, 5090. | 1.7 | 3 |
| 32 | Fluorescence excitation by enhanced plasmon upconversion under continuous wave illumination. Photonics and Nanostructures - Fundamentals and Applications, 2016, 21, 32-43. | 1.0 | 4 |
| 33 | A micromechanical switchable hot spot for SERS applications. Applied Physics Letters, 2016, 109, 131108. | 1.5 | 2 |
| 34 | Contamination-free suspended graphene structures by a Ti-based transfer method. Carbon, 2016, 103, 305-310. | 5.4 | 15 |
| 35 | Investigating the mechanical properties of zona pellucida of whole human oocytes by atomic force spectroscopy. Integrative Biology (United Kingdom), 2016, 8, 886-893. | 0.6 | 36 |
| 36 | Design of broadband SERS substrates by the laser-induced aggregation of gold nanoparticles. Journal of Materials Chemistry C, 2016, 4, 6152-6159. | 2.7 | 13 |

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|---|---|---|---|
| 37 | A novel approach in the free-electron laser diagnosisÂbased on a pixelated phosphor detector. Journal of Synchrotron Radiation, 2016, 23, 29-34. | 1.0 | 4 |
| 38 | Soft X-Ray Microscopy Radiation Damage On Fixed Cells Investigated With Synchrotron Radiation FTIR Microscopy. Scientific Reports, 2015, 5, 10250. | 1.6 | 53 |
| 39 | Plasmon resonance tuning using DNA origami actuation. Chemical Communications, 2015, 51, 4789-4792. | 2.2 | 22 |
| 40 | Parallel optical read-out of micromechanical pillars applied to prostate specific membrane antigen detection. Biosensors and Bioelectronics, 2015, 72, 393-399. | 5.3 | 16 |
| 41 | Nanobiomechanics and Mechanotransduction of Sensory Neurons. Biophysical Journal, 2015, 108, 560a. | 0.2 | 0 |
| 42 | Conformational rearrangements in the transmembrane domain of CNGA1 channels revealed by single-molecule force spectroscopy. Nature Communications, 2015, 6, 7093. | 5.8 | 24 |
| 43 | The phototransduction machinery in the rod outer segment has a strong efficacy gradient. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2715-24. | 3.3 | 25 |
| 44 | Membrane stiffening by STOML3 facilitates mechanosensation in sensory neurons. Nature Communications, 2015, 6, 8512. | 5.8 | 127 |
| 45 | Photo-induced surface encoding of gold nanoparticles. Chemical Communications, 2015, 51, 3363-3366. | 2.2 | 13 |
| 46 | Investigation of Adhesion and Mechanical Properties of Human Glioma Cells by Single Cell Force Spectroscopy and Atomic Force Microscopy. PLoS ONE, 2014, 9, e112582. | 1.1 | 47 |
| 47 | Tip-Assisted Optical Nanoscopy for Single-Molecule Activation and Detection. Advances in Atom and Single Molecule Machines, 2014, , 61-83. | 0.0 | 1 |
| 48 | Enhanced plasmonic properties of gold-catalysed semiconductor nanowires. Nanoscale, 2014, 6, 13651-13659. | 2.8 | 7 |
| 49 | Highly efficient gold nanoparticle dimer formation via DNA hybridization. RSC Advances, 2014, 4, 15281. | 1.7 | 15 |
| 50 | A DNA Origami Nanorobot Controlled by Nucleic Acid Hybridization. Small, 2014, 10, 2918-2926. | 5.2 | 47 |
| 51 | Single Molecule Force Spectroscopy of CNGA1 Channels â€œIn Situâ€•Reveals Major Conformational Changes upon Gating. Biophysical Journal, 2014, 106, 392a. | 0.2 | 0 |
| 52 | Cell Adhesion on Silicon Nanowires. Biophysical Journal, 2014, 106, 389a. | 0.2 | 0 |
| 53 | How to engineer superhydrophobic micromechanical sensors preserving mass resolution. Sensors and Actuators B: Chemical, 2014, 199, 62-69. | 4.0 | 7 |
| 54 | Confined Illumination through Apertureless and Nano-Structured Tapered Optical Fibres. Biophysical Journal, 2014, 106, 621a. | 0.2 | 0 |

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| 55 | Restricted Spots of Light Reveal an Efficacy Gradient of the Phototransduction Cascade Along the Rod Outer Segment. Biophysical Journal, 2014, 106, 20a. | 0.2 | 0 |
| 56 | Investigating Adhesion Proteins by Single Cell Force Spectroscopy. Advances in Atom and Single Molecule Machines, 2014, , 149-168. | 0.0 | 0 |
| 57 | Actuation of silicon pillar micro-mechanical resonators by Kelvin polarization force. Microelectronic Engineering, 2013, 111, 1-6. | 1.1 | 2 |
| 58 | Nanomechanics controls neuronal precursors adhesion and differentiation. Biotechnology and Bioengineering, 2013, 110, 2301-2310. | 1.7 | 24 |
| 59 | Heater-Integrated Cantilevers for Nano-Samples Thermogravimetric Analysis. Sensors, 2013, 13, 16657-16671. | 2.1 | 7 |
| 60 | Nanoscale chemical mapping through plasmonic tips on AFM-based cantilevers. , 2012, , . | | 1 |
| 61 | Triple coupled cantilever systems for mass detection and localization. Sensors and Actuators A: Physical, 2012, 175, 127-131. | 2.0 | 22 |
| 62 | Cycloaddition Functionalization of Cleaved Microstructures. ChemPhysChem, 2012, 13, 459-462. | 1.0 | 1 |
| 63 | Fast Detection of Biomolecules in Diffusion-Limited Regime Using Micromechanical Pillars. ACS Nano, 2011, 5, 7928-7935. | 7.3 | 42 |
| 64 | Effect of PDMS Nanopatterned Substrates on Embryonic Stem Cells Differentiation into Neuronal Lineage. Biophysical Journal, 2011, 100, 622a. | 0.2 | 1 |
| 65 | A Revertible, Autonomous, Self-Assembled DNA-Origami Nanoactuator. Nano Letters, 2011, 11, 5449-5454. | 4.5 | 49 |
| 66 | A completely transparent MEMS for mechanical properties evaluation of a single living cell. Proceedings of SPIE, 2011, , . | 0.8 | 1 |
| 67 | Atomic force microscopy investigation of morphological changes in living keratinocytes treated with HgCl2 at not cytotoxic doses. Journal of Microscopy, 2011, 243, 40-46. | 0.8 | 6 |
| 68 | A new transparent Bio-MEMS for uni-axial single cell stretching. Microsystem Technologies, 2011, 17, 1581-1587. | 1.2 | 11 |
| 69 | Acceleration of neuronal precursors differentiation induced by substrate nanotopography. Biotechnology and Bioengineering, 2011, 108, 2736-2746. | 1.7 | 58 |
| 70 | Tip enhanced Raman scattering with adiabatic plasmon focusing tips. Micron, 2011, 42, 313-317. | 1.1 | 15 |
| 71 | Fragmentation as a Mechanism for Growth Cone Pruning and Degeneration. Stem Cells and Development, 2011, 20, 1031-1041. | 1.1 | 6 |
| 72 | A study on the cellular structure during stress solicitation induced by BioMEMS. , 2011, 2011, 2455-8. | | 1 |

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| 73 | Inverted tapered pillars for mass sensing. Microelectronic Engineering, 2010, 87, 730-733. | 1.1 | 10 |
| 74 | Nanoscale chemical mapping using three-dimensional adiabatic compression of surface plasmon polaritons. Nature Nanotechnology, 2010, 5, 67-72. | 15.6 | 352 |
| 75 | Modulation of Alpha-Synuclein Aggregation by Dopamine Analogs. PLoS ONE, 2010, 5, e9234. | 1.1 | 52 |
| 76 | Chemical functionalization of atomically flat cantilever surfaces. Microelectronic Engineering, 2009, 86, 1200-1203. | 1.1 | 1 |
| 77 | Integration of confocal and atomic force microscopy images. Journal of Neuroscience Methods, 2009, 177, 94-107. | 1.3 | 32 |
| 78 | A morphological analysis of growth cones of DRG neurons combining Atomic Force and Confocal Microscopy. Journal of Structural Biology, 2009, 168, 366-377. | 1.3 | 19 |
| 79 | Structural Insights into Alternate Aggregated Prion Protein Forms. Journal of Molecular Biology, 2009, 393, 1033-1042. | 2.0 | 17 |
| 80 | Intrinsically aligned chemo-mechanical functionalization of twin cantilever structures. Nanotechnology, 2008, 19, 445502. | 1.3 | 3 |
| 81 | Asymmetrical twin cantilevers for single molecule detection. Applied Physics Letters, 2007, 90, 173118. | 1.5 | 21 |
| 82 | Probing Pauli blocking with shot noise in resonant tunneling diodes: Experiment and theory. Physical Review B, 2007, 75, . | 1.1 | 9 |
| 83 | Fabrication And Characterization Of Mn-catalyzed GaAs Nanowires. AIP Conference Proceedings, 2007, , . | 0.3 | 0 |
| 84 | Growth by molecular beam epitaxy and electrical characterization of GaAs nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 37, 134-137. | 1.3 | 66 |
| 85 | Manganese-Induced Growth of GaAs Nanowires. Nano Letters, 2006, 6, 2130-2134. | 4.5 | 61 |
| 86 | X-ray induced variation of the chemistry of GaAs/AlAs oxide nanostructures. Nuclear Instruments & Methods in Physics Research B, 2006, 246, 39-44. | 0.6 | 6 |
| 87 | Twin cantilevers with a nanogap for single molecule experimentation. Microelectronic Engineering, 2006, 83, 1309-1311. | 1.1 | 15 |
| 88 | Chemistry and formation process of Ga(Al)As oxide during local anodic oxidation nanolithography. Surface Science, 2006, 600, 3739-3743. | 0.8 | 9 |
| 89 | In-Plane Bandgap Engineering by Modulated Hydrogenation of Dilute Nitride Semiconductors. Advanced Materials, 2006, 18, 1993-1997. | 11.1 | 51 |
| 90 | Controlling interface reactivity and Schottky barrier height in Auâˆ•ZnSe(001) junctions. Journal of Vacuum Science & Technology B, 2006, 24, 1259. | 1.3 | 3 |

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| 91 | Chemical composition of GaAs oxides grown by local anodic oxidation: a spatially resolved Auger study. Chemical Physics Letters, 2005, 402, 155-159. | 1.2 | 17 |
| 92 | GaAs Oxide Desorption under Extreme Ultraviolet Photon Flux. Advanced Functional Materials, 2005, 15, 587-592. | 7.8 | 12 |
| 93 | Evidence of material mixing during local anodic oxidation nanolithography. Journal of Applied Physics, 2005, 98, 114303. | 1.1 | 9 |
| 94 | Desorption dynamics of oxide nanostructures fabricated by local anodic oxidation nanolithography. Journal of Applied Physics, 2005, 97, 114324. | 1.1 | 18 |
| 95 | Magnetic field and temperature dependence of an atomic force microscope-defined quantum point contact. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 570. | 1.6 | 8 |
| 96 | AFM anodization studied by spectromicroscopy. Nuclear Instruments & Methods in Physics Research B, 2003, 200, 46-51. | 0.6 | 2 |
| 97 | High-performance planar light-emitting diodes. Applied Physics Letters, 2003, 82, 636-638. | 1.5 | 23 |
| 98 | Atomic force microscope anodic oxidation studied by spectroscopic microscopy. Applied Physics Letters, 2002, 81, 2842-2844. | 1.5 | 37 |
| 99 | MORPHOLOGY AND CHEMISTRY OF S-TREATED GaAs(001) SURFACES. Surface Review and Letters, 2002, 09, 413-423. | 0.5 | 1 |
| 100 | PTFE nanoemulsions as ultralow-k dielectric materials. Macromolecular Symposia, 2002, 179, 347-358. | 0.4 | 6 |
| 101 | PTFE nanoemulsions as ultralow-k dielectric materials. Materials Science in Semiconductor Processing, 2002, 5, 285-290. | 1.9 | 11 |
| 102 | Ideal unreactive metal/semiconductor interfaces:â€ƒThe case ofZn/ZnSe(001). Physical Review B, 2001, 63, . | 1.1 | 8 |
| 103 | Metal/IIIâ€“V diodes engineered by means of Si interlayers: Interface reactions versus local interface dipoles. Applied Physics Letters, 2001, 79, 1462-1464. | 1.5 | 0 |
| 104 | Reflectionless tunneling in planar Nb/GaAs hybrid junctions. Applied Physics Letters, 2001, 78, 1772-1774. | 1.5 | 9 |
| 105 | Resonant Transport in Nb/GaAs/AlGaAs Heterostructures: Realization of the de Gennesâ€“Saint-James Model. Physical Review Letters, 2001, 87, 216808. | 2.9 | 29 |
| 106 | Andreev reflection in engineered Al/Si/In<sub>x</sub>Ga<sub>1â^'x</sub>As(001) junctions. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 817-823. | 0.6 | 0 |
| 107 | Evidence of two-electron tunneling interference in Nb/InAs junctions. Physical Review B, 2000, 62, 9831-9834. | 1.1 | 6 |
| 108 | Tunable Schottky barrier contacts to In[sub x]Ga[sub 1â^'x]As. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 2119. | 1.6 | 6 |

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| 109 | Zn0.85Cd0.15Se active layers on graded-composition InxGa1â^'xAs buffer layers. Journal of Applied Physics, 1999, 85, 8160-8169. | 1.1 | 8 |
| 110 | Ohmic versus rectifying contacts through interfacial dipoles: Al/InxGa1â^'xAs. Journal of Crystal Growth, 1999, 201-202, 769-772. | 0.7 | 4 |
| 111 | Lattice-matched Zn1â^'yCdySe/InxGa1â^'xAs(0 0 1) heterostructures. Journal of Crystal Growth, 1998, 184-185, 21-25. | 0.7 | 1 |
| 112 | Schottky barrier tunability in Al/ZnSe interfaces. Journal of Crystal Growth, 1998, 184-185, 193-198. | 0.7 | 0 |
| 113 | Truly ohmic contacts in engineered Al/Si/InGaAs(001) diodes. Applied Physics Letters, 1998, 72, 1996-1998. | 1.5 | 11 |
| 114 | Hole-assisted Zener magnetotunneling in heterostructures. Applied Physics Letters, 1998, 73, 3553-3555. | 1.5 | 2 |
| 115 | Strain and surface morphology in lattice-matched ZnSe/InxGa1â^'xAs heterostructures. Journal of Applied Physics, 1998, 83, 2504-2510. | 1.1 | 10 |
| 116 | Andreev reflection in Si-engineered Al/InGaAs hybrid junctions. Applied Physics Letters, 1998, 73, 3890-3892. | 1.5 | 28 |
| 117 | Al/ZnSe(100) Schottky-barrier height versus initial ZnSe surface reconstruction. Physical Review B, 1998, 57, R9431-R9434. | 1.1 | 10 |
| 118 | Oxygen diffusion in GdBa2 Cu3O(6+y) thin films. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1047-1052. | 0.4 | 0 |
| 119 | High-field transport in superlattices: observation of the Stark-cyclotron resonance. Superlattices and Microstructures, 1997, 22, 155-159. | 1.4 | 7 |
| 120 | Electrical characterization of engineered ZnSeî—¸GaAs heterojunction diodes. Journal of Crystal Growth, 1997, 175-176, 603-607. | 0.7 | 3 |
| 121 | Band offsets in Zn1â^'xCdxSe/ZnSe multiple quantum wells. Journal of Applied Physics, 1996, 79, 929. | 1.1 | 16 |
| 122 | Band-offset determination in multiple quantum wells. Journal of Crystal Growth, 1996, 159, 498-501. | 0.7 | 7 |
| 123 | Thermal stability of engineered Schottky barriers in Al/Si/GaAs(001) diodes. Applied Physics Letters, 1996, 69, 1927-1929. | 1.5 | 13 |
| 124 | Low resistance graded contacts to nâ€†type ZnSe. Applied Physics Letters, 1996, 68, 370-372. | 1.5 | 8 |
| 125 | Hotâ€†electron multiquantum well microwave detector operating at room temperature. Applied Physics Letters, 1995, 67, 250-252. | 1.5 | 9 |
| 126 | Noise measurements in resonant tunnelling structures as a function of current and temperature. Electronics Letters, 1995, 31, 503-505. | 0.5 | 15 |

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| 127 | Deposition of MBa2Cu3O7-xthin films by channel-spark method. Superconductor Science and Technology, 1995, 8, 160-164. | 1.8 | 39 |
| 128 | Surface plasmon on Ag(110): Observation of linear and positive dispersion and strong azimuthal anisotropy. Physical Review Letters, 1992, 69, 2122-2125. | 2.9 | 75 |
| 129 | Plasmon damping and surface interband transitions on Ag(001) and (011). Surface Science, 1992, 269-270, 560-562. | 0.8 | 13 |
| 130 | Comment on â€˜â€˜Surface-plasmon energy and dispersion on Ag single crystalsâ€™â€™. Physical Review Letters, 1991, 67, 3197-3197. | 2.9 | 53 |