

**Presentations (Invited) (Apr. 2005 – Mar. 2010)**

1. Satoshi Kawata, "Deep UV plasmonics for nano-imaging and nano-analysis" FOM2010 (Shanghai, China) (2010.3.28).
2. Satoshi Kawata, "UV plasmonics for nano-imaging and analysis" JSPS-CNRS Japan-France Symposium (Marseille, France) (2009.10.26).
3. Satoshi Kawata, "Plasmonics: a new functional photonics" ICONO11 (Beijing, China) (2009.9.24).
4. Satoshi Kawata, "Plasmonic nano lens for nano-imaging" (Shanghai, China) (2009.9.1).
5. Nobuyuki Takeyasu, Takuo Tanaka, and Satoshi Kawata, "Enhancement of spatial resolution with high sensitive photo-initiators in two-photon induced polymerization," SPIE International Symposium on NanoScience+Engineering (San Diego, USA) (2009.8.3) (2009).
6. Satoshi Kawata and Atsushi Taguchi, "Plasmonics in UV for nano-imaging and analysis," SPIE Optics+Photonics (San Diego, USA, August 2, 2009).
7. Satoshi Kawata, "Nanophotonics: Walking beyond the classical limits of light," Nanophotonics Down Under 2009 (Melbourne, Australia, June 22, 2009).
8. Takuo Tanaka, "Magnetic Metamaterials and Their Fabrication Technique," Magnetics and Optics Research International Symposium for New Storage Technology (MORIS 2009) (Awaji Yumebutai, Hyogo, JAPAN) (2009.6.16) (2009).
9. Satoshi Kawata, "Plasmonics nano-imaging with nano-tip and nano-rods," ETOPIIM 8 (Crete, Greece, June 9, 2009).
10. Satoshi Kawata, "Two-photon reduction for fabrication of three-dimensional metamaterials," CLEO/IQEC 2009 (Baltimore, USA, June 4, 2009).
11. Norihiko Hayazawa, Kentaro Furusawa, Atsushi Taguchi, and Satoshi Kawata: "Tip-enhanced nonlinear spectroscopy and microscopy using a silicon tip", 8th European Conference on Nonlinear Spectroscopy and 28th European CARS Workshop, p. 38 (May25-27, Frascati, Rome, Italy) (2009).
12. Satoshi Kawata, "Plasmonics for nano-imaging and nano-analysis," A\*STAR-RIKEN Joint Symposium 2009 (Biopolis, Singapore, May 18, 2009).
13. Takuo Tanaka, "Two-photon Fabrication Technique for Three-dimensional Metamaterials," Nanophotonics and Meta-Materials 2009 (National Taiwan University, Taipei, Taiwan) (2009.4.29) (2009).
14. Satoshi Kawata, "Subwavelength Color Imaging with Metallic Nanolens," 2009 MRS Spring Meeting (San Francisco, USA, April 14, 2009).
15. Nobuyuki Takeyasu, Takuo Tanaka, and Satoshi Kawata, "Multi-photon induced polymerization for three-dimensional metal/polymer fine structures," Progress in Electromagnetics Research Symposium 2009 (PIERS 2009 in Beijing) (Beijing, China, China) (2009.3.25) (2009).
16. Takuo Tanaka, "Two-photon-induced Nano-scale Fabrication Technique of Three-dimensional Metallic Structures for Plasmonic Metamaterials," Progress in Electromagnetics Research Symposium 2009 (PIERS 2009 in Beijing) (Beijing, China, China) (2009.3.24) (2009).
17. Satoshi Kawata, "Nanophotonics: Manipulating Light for beyond its Classical Limits," Optical Society of Korea Annual Meeting 2009 (Seoul, Korea, February 12, 2009).
18. Norihiko Hayazawa, Masashi Motohashi, Alvarado Tarun, and Satoshi Kawata, "Nanoscale characterization of crystalline samples by near-field Raman spectroscopy," 16th International Colloquium on Scanning Probe Microscopy (ICSPM16) (Atagawa, Shizuoka, December 12, 2008).
19. Satoshi Kawata, "Nano-plasmonics for Raman imaging," International Workshop on Meta-materials and Plasmonics (Shanghai, November 13-15, 2008).
20. Satoshi Kawata, "Metallic nanolens for color imaging," Frontiers in Optics 2008/ Laser Science (LS) XXIV (Rochester, October 19-23, 2008).
21. Takuo Tanaka, "Plasmonic Metamaterials and their novel optical functions," The 14th MICROOPTICS CONFERENCE (MOC '08) (Brussels, Belgium, Belgium) (2008.9.27) (2008).
22. Satoshi Kawata, "Nano-imaging with a metallic nanolens," SPRC 2008 Annual Symposium (San Francisco, September 17, 2008).
23. Satoshi Kawata, "Two-photon reduction for fabrication of three-dimensional metamaterials," SPIE Optics & Photonics (San Diego, August 10-14, 2008).
24. Norihiko Hayazawa, Masashi Motohashi, Alvarado Tarun, and Satoshi Kawata, "Nano-scale Characterization and Spectroscopy of Strained Silicon," SPIE Optics and Photonics (San Diego, USA, August 10, 2008).
25. Satoshi Kawata, "Nanophotonics: Walking beyond the classical limits of light," iNOW (Tokyo, August 5, 2008).

26. Takuo Tanaka, "Plasmonic Metamaterials (Tentative)," Euroscience Open Forum 2008 (ESOF2008) (Barcelona, Spain) (2008.7.18) (2008).
27. Satoshi Kawata, "Tip-enhanced Raman microscopy: a step beyond the plasmonics," ICO-21 (Sydney, July 7-10, 2008).
28. Takuo Tanaka, "Plasmonic metamaterials produced by two-photon-induced photoreduction technique," 0th International Symposium on Laser Precision Microfabrication (LPM) 2008 (Quebec, Canada, Canada) (2008.6.16) (2008).
29. Satoshi Kawata, "Nonlinear nanophotonics," Summer Course on "Nanophotonics and molecular photonics" (Santander, June 16-20, 2008).
30. Satoshi Kawata, "Nanophotonics," Rice University Nano Japan Orientation Program (東工大大岡山キャンパス, 2008年6月3日).
31. Satoshi Kawata, "Two-photon Engineering of Three-dimensional Micro/nano Structures: Photopolymerization, Photoreduction and Photoisomerization," ICONO10/ICOPE2008 (New Mexico, May 18-23, 2008).
32. Satoshi Kawata, "Imaging beyond the plasmonics: New aspects in tip-enhanced Raman microscopy," Focus on Microscopy 2008 (Osaka-Awaji, April 13-16, 2008).
33. Takuo Tanaka, "Plasmonics Metamaterials and Their Applications," The 6th Asia Pacific Laser Symposium (Nagoya, Japan, January 31, 2008).
34. Satoshi Kawata, Takuo Tanaka, and Nobuyuki Takeyasu, "Two-photon Engineering of Three-dimensional Micro/nano Structures: Photopolymerization, Photoreduction and Photoisomerization," MRS Fall Meeting2007 (Boston, USA, November 26, 2007).
35. Takuo Tanaka and Satoshi Kawata, "Three-dimensional multilayered fluorescent optical disk," International Symposium on Optical Memory 2007 (ISOM07) (PanPacificHotel, Singapore, October 23, 2007).
36. Norihiko Hayazawa, Masashi Motohashi, Alvarado Tarun, and Satoshi Kawata, "Nano-scale Characterization and Spectroscopy of Strained Silicon," 25th National Physics Congress of the Samahang Pisika ng Pilipinas (Los Banos, Philippines, October 23, 2007).
37. Satoshi Kawata, "Tip-enhanced Raman microscopy: towards single molecule imaging," Hamano-Kobe International Symposium on "Laser and Nano/Bio Sciences" (Kobe, Japan, October 19, 2007).
38. Takuo Tanaka, "Plasmonic metamaterials and its application to the non-reflectional optical devices," International Workshop on Metamaterial Plasmonics (Taipei, Taiwan, October 10, 2007).
39. Norihiko Hayazawa, Masashi Motohashi, Yuika Saito, and Satoshi Kawata, "Characterization of localized strain of crystals in nanoscale by tip-enhanced Raman spectroscopy and microscope," SPIE Optics East (Boston, USA, September 12, 2007).
40. Nobuyuki Takeyasu, Takuo Tanaka, and Satoshi Kawata, "Three-dimensional Metal Microfabrication Technique by using Two-photon Reduction," The 7th Pacific Rim Conference on Lasers and Electro-Optics (Seoul, Korea, August 29, 2007).
41. Takuo Tanaka and Satoshi Kawata, "Plasmonic metamaterials for photon control device," The 7th Pacific Rim Conference on Lasers and Electro-Optics (CLEO/PR 2007) (Seoul, Korea, August 26, 2007).
42. Satoshi Kawata, "Nonlinear and Near-field Raman Imaging of Molecules," 3rd Asian and Pacific Rim Symposium on Biophotonics (APBP) (Cairns, Australia, July 11, 2007).
43. Satoshi Kawata and Takuo Tanaka, "Nonreflection at highly magnetic permeable anisotropic metamaterials," Third International Conference on Surface Plasmon Photonics (SPP3) (Dijon, France, June 17, 2007).
44. Satoshi Kawata, "Nanophotonics: For imaging, fabrication and manipulation of nanostructures," Conference on Optoelectronics and Optical Communications (COOC 2007) (Jeju, Korea, May 17, 2007).
45. Satoshi Kawata, Taka-aki Yano, and Prabhat Verma, "Tip-applied pressure: A step forward in near-field Raman microscopy," FOM 2007 (Valencia, Spain, April 11, 2007).
46. Satoshi Kawata, "Tip-pressurized near-field Raman microscopy," 14th International Colloquium on Scanning Probe Microscopy (ICSPM14) (Shizuoka, Japan, December 8, 2006).
47. Satoshi Kawata, "Raman, CARS and Near-field Raman CARS Microscopy for Cellular and Molecular Imaging," International Symposium on Biophotonics, Nanophotonics & Metamaterials (Hangzhou, China, October 17, 2006).
48. Satoshi Kawata, "Metallic Nano-lens for Nano-maging," International Symposium on Biophotonics, Nanophotonics & Metamaterials (Hangzhou, China, October 16, 2006).
49. Takuo Tanaka and Satoshi Kawata, "Three-Dimensional Multilayered Fluorescent Optical Memory Using Two-Photon Reduction of Au(III)-Ions," International Symposium on Optical Memory 2006 (ISOM06) (Takamatsu, JAPAN, October 15, 2006).
50. Takuo Tanaka, "Three-Dimensional Multilayered Optical Storage," Optical Storage Symposium 2006 (Tokyo, JAPAN, October 5, 2006).

51. Satoshi Kawata, "Near field and Raman microscopy for molecular and cellular biomedical sciences," 12th NSRRC Users' Meeting and Workshops (Hsinchu, Taiwan, October 3, 2006).
52. Zouheir Sekkat, Hidekazu Ishitobi, Mamoru Tanbe, and Satoshi Kawata, "Molecular orientation and nanofabrication by two- and multi-photon photoselection," International Conference on Organic Photonics and Electronics 2006 (ICOPE2006) & The 9th International Conference on Organic Nonlinear Optics (ICONO'9) (Brugge, Belgium, September 26, 2006).
53. Satoshi Kawata, "Raman, CARS, and Near-Field Raman-CARS Microscopy for Cellular and Molecular Imaging," SPIE Optical Imaging 2006 (Maryland, USA, September 25, 2006).
54. Satoshi Kawata, and Atsushi Ono, "Nano lens made of metallic nano-rods for subwavelength optical imaging," The 9th International Conference on Near-field Nano Optics & Related Techniques(NFO-9) (Lausanne, Switzerland, September 14, 2006).
55. Takuo Tanaka, "Three-dimensional multi-layered optical storage using rhodamine-B/Au<sup>3+</sup> doped PMMA," Asia-Pacific Data Storage Conference (APDSC'06) (Hsinchu, Taiwan, August 29, 2006).
56. Satoshi Kawata, "Nanophotonics: a walk beyond the traditions," Finnish Optical Society 10 years Anniversary Seminar (Helsinki, Finland, August 25, 2006).
57. Yuika Saito, Norihiko Hayazawa, Satoshi Kawata, "Polarization properties in near-field Raman spectroscopy," ICORS2006(International Conference on Raman Spectroscopy) (Yokohama, Japan, August 24, 2006).
58. Norihiko Hayazawa, Yuika Saito, Masahi Motohashi, and Satoshi Kawata, "Nanoscale characterization of localized strain in crystals by tip-enhanced Raman spectroscopy in reflection-mode," International Conference on Raman Spectroscopy (The 20th ICORS) (Yokohama, Japan, August 24, 2006).
59. Satoshi Kawata, "Near-field Raman Microscopy: A Walk Beyond the Traditions," ICORS 2006 (Yokohama, Japan, August 21, 2006).
60. Nobuyuki Takeyasu, Florian Formanek, Kenta Chiyoda, Takuo Tanaka, Atsushi Ishikawa and Satoshi Kawata, "Site-selective metal deposition on 3D micro/nanostructures fabricated by two-photon polymerization," SPIE Optics and Photonics (San Diego, USA, August 17, 2006).
61. Norihiko Hayazawa, Yuika Saito, Masahi Motohashi, Masato Iyoki, and Satoshi Kawata, "Nanoscale characterization of localized strain in crystals by tip-enhanced Raman spectroscopy in reflection-mode," SPIE Optics and Photonics (San Diego, USA, August 17, 2006).
62. Takuo Tanaka, Atsushi Ishikawa, and Satoshi Kawata, "Three-Dimensional Metallic Micro/Nanostructures Fabricated by Two-Photon-Induced Reduction of Metal Ions," SPIE Optics & Photonics (San Diego, USA, August 17, 2006).
63. Satoshi Kawata, "Nano-Rod Array as a Nano-Lens," SPIE Optics and Photonics 2006 (San Diego, USA, August 14, 2006).
64. Norihiko Hayazawa, Yuika Saito, Masahi Motohashi, and Satoshi Kawata, "Plasmonic Enhanced Raman Spectroscopy for Nanoscale Characterization of Molecular Vibrations," Progress in Electromagnetic Research Symposium (PIERS2006) (Tokyo, Japan, August 4, 2006).
65. Jun-ichi Kato, Atsushi Ono, and Satoshi Kawata, "Plasmonic Imaging: a Novel Function of Metallic Nanostructures," Progress in Electromagnetics Research Symposium (PIERS) 2006-Tokyo (Tokyo, Japan, August 4, 2006).
66. Takuo Tanaka, Atsushi Ishikawa, and Satoshi Kawata, "Plasmonic metamaterials and its application to novel optical devices in the visible light region," Progress in Electromagnetics Research Symposium 2006 (PIERS 2006) (Tokyo, JAPAN, August 4, 2006).
67. Takayuki Okamoto, Jing Feng, and Satoshi Kawata, "Plasmonic crystals as cathodes of organic light emitting devices," PIERS 2006 in Tokyo (Tokyo, Japan, August 4, 2006).
68. Satoshi Kawata, "Plasmon Laser Structures," 2006 Gordon Research Conference (Keene, NH, USA, July 26, 2006).
69. Satoshi Kawata, "Optical nano-imaging and nano-analysis of materials: Peeping through tip-enhanced Raman scattering," Summer Workshop 2006 on: Nanoanalysis (Zurich, Switzerland, July 10, 2006).
70. Satoshi Kawata, "Raman, CARS and Near-Field Raman-CARS Microscopy for Cellular and Molecular Imaging," 3rd International Nanophotonics Symposium(INPS3) (Osaka, Japan, July 6, 2006).
71. Satoshi Kawata, "Nanophotonics for imaging, manipulating and functionalizing of nanostructures," E-MRS IUMRS ICEM 2006 spring Meeting (Nice, France, May 30, 2006).
72. Atsushi Ono, Jun-ichi Kato, and Satoshi Kawata, "Subwavelength Imaging through Metallic Nanorod Array," 2006 MRS Spring Meeting (San Francisco, USA, April 20, 2006).
73. Satoshi Kawata, Takuo Tanaka, and Nobuyuki Takeyasu, "Photopolymerization and Metalization for Fabricating Functional Devices," MRS Spring Meeting 2006 (Moscone West, San Francisco, USA, April 18, 2006).

74. Satoshi Kawata, "Metallic-rod array for nano-imaging," Focus on Microscopy 2006 (Perth, Australia, April 10, 2006).
75. Satoshi Kawata, "Recent Advances in Two-Photon Photopolymetric Micro/Nano Fabrication," ACS-PMSE (Atlanta, USA, March 26, 2006).
76. Satoshi Kawata, "Tip-effects in near-field Raman/CARS microscopy," Photonics West 2006 (San Jose, USA, January 22, 2006).
77. Satoshi Kawata, "Nonlinear Near-Field Raman Imaging of Biomolecules in Cells," CPT2006 (Tokyo, Japan, January 12, 2006).
78. Satoshi Kawata, "Metallic Photon Reservoirs for Nano-imaging and Lasing," 2005 MRS Fall Meeting (Boston, November 29, 2005).
79. Satoshi Kawata, "Nanoscale Manipulation and Mega-Enhancement of Light-Utilizing Surface Plasmons," 2005 MRS Fall Meeting (Boston, November 27, 2005).
80. Takuo Tanaka, "Nanometal composite materials and their applications to large capacity optical storage and metamaterials," Third Joint Taiwan-Riken Nanotechnology Workshop (Institute of Physics, Academia Sinica, Taiwan), p. 7 (2005). November 24, 2005
81. Satoshi Kawata, "Tip-enhanced near-field Raman microscopy for molecular imaging," German-Argentine Workshop on Nanoscale Science, (Buenos Aires, November 21/22, 2005).
82. Satoshi Kawata, "Near-Field Effects in Tip-Enhanced Raman Microscopy," OSA Annual Meeting "Frontiers in Optics 2005, Laser Science XXI," (Tucson, October 18, 2005).
83. J. Simonen, T. Okamoto, F. H'Dhili, and S. Kawata, "Plasmonic band gap engineering for lasing applications," 6th Japan-Finland Joint Symposium on Optics in Engineering (OIE'05), Sapporo, Japan. September 26-28(2005).
84. Satoshi Kawata, "Two-photon photopolymerization for photonic, mechanical and meta-material devices," Optics & Photonics 2005 (SPIE 50th Annual Meeting) (San Diego, USA August 4, 2005).
85. Takayuki Okamoto, Fekhra H'Dhili, Feng Jing, Janne Simonen, and Satoshi Kawata, "Lasing and Organic Light Emitting Diode with a Plasmonic Bandgap Structure," SPIE 50th Annual Meeting, Optics and Photonics, San Diego, U. S. A. July 31-Aug 4(2005).
86. N. Hayazawa, "Plasmon enhanced near-field vibrational spectroscopy," Abstracts of The 11th RIKEN International Nanoscience and Technology Conference, p.12 (June, Nagano) (2005).
87. Yuika Saito, Norihiko Hayazawa, Fekhra H'Dhili, Takashi Murakami, Masashi Motohashi, and Satoshi Kawata, "Carbon Nanotubes and Peapods Investigated by Polarization-Controlled Near-field Raman Spectroscopy," Abstracts of The 11th RIKEN International Nanoscience and Technology Conference, p.47 (June, Nagano) (2005).
88. Satoshi Kawata, "Plasmonic band gap structures as laser," SPP2 (Second Surface Plasmon Photonics Conference) (Graz, Austria, May 26, 2005).
89. Satoshi Kawata, "Nonlinear and near-field nano-imaging of bio-molecules," ISPPN'05 (International Symposium on Photonics, Biophotonics and Nanophotonics '05) (Nanjing, China, May 15, 2005).
90. 河田聡, 「光でナノを見る・操るーナノフォトニクスの過去と未来」 Optical Solution Conference 2010 (東京コンファレンスセンター・品川) (2010.2.19).
91. 河田聡, 「フォトニクス、ナノフォトニクス、そして・・・」第4回フォトニクスシンポジウム (大手町・サンケイプラザ) (2009.11.18).
92. 河田聡, 「近接場プラズモン顕微鏡の開発」 JAIMA コンファレンス (幕張メッセ国際展示場) (2009.9.2).
93. 田中拓男, "プラズモニク・メタマテリアルとメタフォトニクスへの展開," 第28回電子材料シンポジウム(EMS28) (ラフォーレ琵琶湖, 滋賀) (2009.7.10) (2009).
94. 田中拓男, "プラズモニク・メタマテリアルー古典光学を越える光機能材料," 日本光学会 新産業創出フォーラム (慶應大学・三田キャンパス, 東京) (2009.2.27) (2009).
95. 田中拓男, "プラズモニク・メタマテリアル," 日本オプトメカトロニクス協会セミナー 基礎からよく分かる「ナノ領域の光学」入門 (機会振興会館, 東京) (2009.2.6) (2009).
96. 田中拓男, "プラズモニクスとメタマテリアル," 応用物理学会応用電子物性分科会研究例会 「メタマテリアルの基礎と応用研究最前線」 (秋葉原, 東京) (2009.1.30) (2009).
97. 早澤紀彦, "プラズモニク近接場顕微鏡によるナノスケール分光," 分子科学研究所シンポジウム 「プラズモニク物質と分子科学研究 (愛知県, 2009年1月23日).
98. 早澤紀彦、河田聡, "近接場ラマン分光を用いた局所歪み計測," 日本学術振興会 ナノプローブテクノロジー第167委員会 第53回研究会 (京都府, 2009年1月9日).
99. 早澤紀彦、河田聡, "チップ増強近接場ラマン分光の最新の成果," 日本分光学会 高感度表面・界面部会 第一回シンポジウム (茨城県, 2008年12月5日).
100. 田中拓男, "プラズモニク・メタマテリアル," ニューガラスセミナー (名古屋) (2008.11.26) (2008).



101. 河田 聡, “プラズモニクスとナノ分光学,” 日本分光学会年次講演会 学術賞受賞講演 (東北大学, 2008 年 11 月 19 日).
102. 田中拓男, “メタマテリアルの現状と将来展望,” 警察庁 最先端技術講演会 (警察総合庁舎, 東京) (2008.11.18) (2008).
103. 田中拓男, “メタマテリアル 光の常識を超える夢の新技術,” 東京テクノフォーラム21 大阪講演会 -先端科学は、くらしの中に- (読売大阪ビル, 大阪) (2008.10.27) (2008).
104. 河田 聡, “ナノフォトンクスの未来,” 08-2 フォトニクスポリマー研究会 (慶応義塾大学 日吉キャンパス, 2008 年 10 月 9 日).
105. 田中拓男, “プラズモニク・メタマテリアル,” 第57回高分子討論会 (大阪市立大学 杉本キャンパス, 大阪) (2008.9.24) (2008).
106. 田中拓男, “メタマテリアルー光の常識を超える夢の新技術,” 東京テクノ・フォーラム 2 1 ゴールド・メダル賞受賞記念講演 (日本プレスセンター, 東京) (2008.7.17) (2008).
107. 早澤紀彦, “近接場ラマン顕微鏡によるナノ領域での光物性評価,” 日本学術振興会「未踏・ナノデバイステクノロジー」第 151 委員会 第 85 回研究会「光・電磁波の「ナノ」構造：基礎から応用まで」 (北海道, 2008 年 6 月 20 日).
108. 田中拓男, “プラズモニク・メタマテリアル (仮題),” 電子情報通信学会 集積光デバイス研究会 (北海道登別) (2008.5.15) (2008).
109. 武安伸幸, 田中拓男, 河田聡, “サイト選択金属コーティング法とその 3 次元機能デバイスへの応用,” レーザー学会学術講演会 第 28 回年次大会 (愛知県, 2008 年 1 月 31 日).
110. 田中拓男, “プラズモニク・メタマテリアル,” 光産業技術協会 光技術動向調査委員会 トピックス講演 (静岡県, 2008 年 1 月 11 日).
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112. 河田聡, “プラズモニクスとナノ分光学,” 分光学会秋季講演会 (東京都, 2007 年 11 月 12 日).
113. 河田聡, “プラズモニクスが拓く光デバイスの新展開,” 応用電子物性分科会研究例会「表面プラズモン技術の親展、その基礎と応用」 (東京都, 2007 年 10 月 25 日).
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116. 河田聡, “ナノとフォトンが創る 2 1 世紀の科学と技術,” 日本学術会議公開講演会 (大阪府, 2007 年 8 月 9 日).
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120. 河田聡, “医療・バイオの進歩は機械産業が担う,” 石川県産業創出支援機構講演会 (石川県, 2007 年 7 月 17 日).
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